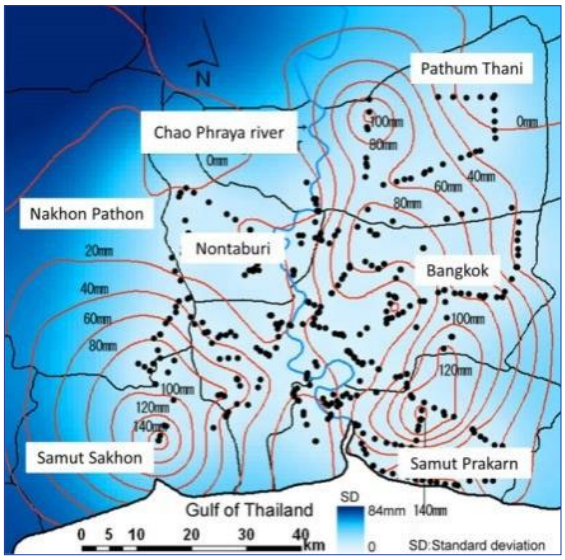
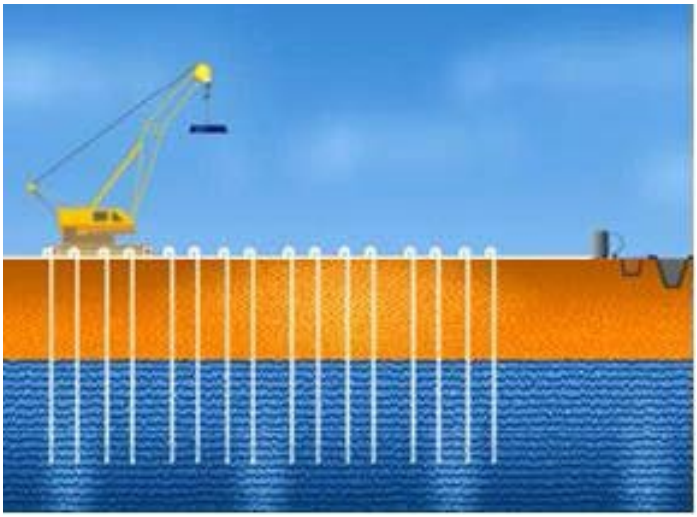
FEBRUARY 2016 NEWSLETTER

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

Relative inundation vulnerability of coastal deltas due to sea level rise
(After IPCC WGII, 2007)



Contour lines of land subsidence in Chao Phraya Delta
(After Yasuhara, Murakami and Mimura 2015)



Vacuum De-Watering and Dynamic Compaction
(After Liang, Xu and Edil 2015)

Reclamation at Rio de Janeiro State, Brazil
(After Barbosa, Barboza de Oliveira and Marques 2015)

What's inside

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Ir. Kenny Yee
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OBITUARY: Ir. Chiam Teong Tee

Ir. Chiam Teong Tee 1934 - 2016

Ir. Chiam Teong Tee passed away peacefully at the University of Malaya Hospital on Saturday 30th January 2016, aged 82. Ir. Chiam was married to the late Mdm Khoo Siew Choo. He is survived by his daughter, Mdm Elaine Chiam and son, Chiam Chen Yoong.

Ir. Chiam was born in Penang in 1934. He received his secondary school education at Penang Free School. He was one of the first batch of engineering students from the University of Malaya then in Singapore and graduated in 1958. He also obtained a Master in Engineering Science (MEngSc) from the University of New South Wales in 1968 under the UNESCO Fellowship. Ir. Chiam started his career in the Department of Irrigation and Drainage (DID) in 1958. In 1962 he joined a Consulting Engineering firm before going back to the University of Malaya in Kuala Lumpur as a lecturer in 1963. In 1971 he was the Deputy Dean and was appointed the Dean of the Faculty of Engineering in 1973. In 1975, he was a founding member and principal of Perunding Bakti Sdn Bhd, a firm in Engineering Consultancy service in the areas of civil, mechanical and electrical engineering. He was then involved directly in many projects undertaken by the company including Drainage and Irrigation works, Highways, High Rise Buildings and Housing Developments.

Ir. Chiam worked very closely with the late Tan Sri Professor Chin Fung Kee and has been a great student of Prof Chin. In 1972 at the 3rd Southeast Asia Soil Engineering Conference held in Hong Kong Prof Chin brought the 4th Southeast Asia Soil Engineering Conference to Kuala Lumpur and it was successfully held in April 1975 with Prof Chin as Organizing Chairman and Ir. Chiam as the Deputy Organizing Chairman. Ir. Chiam was responsible for the setting up of the Tan Sri Professor Chin Fung Kee annual series of memorial lecture under IEM and the Engineering Alumni of the University of Malaya since 1991. He and is lunch group was responsible for the initiation of the grand dinner celebration held on 12th September 2015 to commemorate the dedicated service of Professor Chin Fung Kee's 63 years of contribution to engineering education and the Engineering Profession and 60 years of the founding of the Faculty in Engineering at the University of Malaya. This event was organized by The Institution of Engineers, Malaysia for the first time and managed by the IEM Academy Sdn Bhd. A DVD on Professor Chin was produced and given as a

door gift to all participants. In this respect Ir. Chiam contributed three articles on

1. The Development of Engineering Education and Professional Practice in Malaysia for the Past 50 years-A Personal Experience and Observations

2. My Thoughts on the restriction of the use of the "Ir" title Vis-à-vis the Professional Engineers qualifications

3. My thoughts on Site Supervision in the Consulting Engineering Practice.

Ir. Chiam has been an Arbitrator since 1981 and is on the IEM Arbitration Panel and also the Regional Centre for Arbitration in Kuala Lumpur (KLRCA). He was a Fellow of the Malaysian Institute of Arbitrators. He was also responsible for setting up the IEM Arbitration Committee when he was the IEM President in 1981 and helped prepare the initial draft of the IEM Arbitration Rules.

Ir. Chiam was actively serving the engineering profession through IEM in various capacities. He had been conferred the IEM Honorary Fellowship in 1986 and Fellow Members of other Institutions such as the Institution of Civil Engineers United Kingdom (ICE,UK), Institution of Engineers Singapore (IES) and American Society of Civil Engineers (ASCE).

Apart from being active in IEM, Ir. Chiam also had served in many other Councils and Committees in the private and public sectors such as the President of the Federation of Engineering Institutions of Southeast Asia & the Pacific (FEISEAP) in 1981/1982; Chairman of Government's Engineering Sub-committee on Uniform Building Bylaws (UBBL) 1974-1995; Council Member of National Productive Centre 1970-1975; President of the Engineering Alumni Association, Universiti Malaya 1968-1969; Chairman and Member of the Industrial Standards Committee of SIRIM 1968-1980; Editor of the UNESCO Journal of Engineering Education in Asia, 1971 and many others of the engineering profession. He is also a founding member of the Engineering Accreditation Council (EAC) and a board member of the BEM, ACEM, and FRIM etc.

In his first year in IEM Council, Ir Chiam initiated the complete redraft of the new IEM Constitution and Bylaws including the use of the title Ingenieur for all the members of The Institution of Engineers, Malaysia, irrespective of their grades of membership. Other relevant professional bodies, such as the Architects, Surveyors etc have subsequently follow suite giving a title to their members!

Ir. Chiam has been a very active member of IEM since early 60s when he joined the Faculty of Engineering as a Lecturer, and served in various capacities in IEM committees for over 50 years. His contribution to the engineering fraternity and various sectors and organizations over the years has impressed the IEM and many others. With due respect and recognition, the Council of the Institution of Engineers, Malaysia (IEM) has unanimously agreed to confer the IEM Engineering Hall of Fame to Ir. Chiam in 2010.

Ir. Chiam will be missed by all those who know him. May his soul rest in peace!

Ir Dr Ooi Teik Aun
President SEAGS

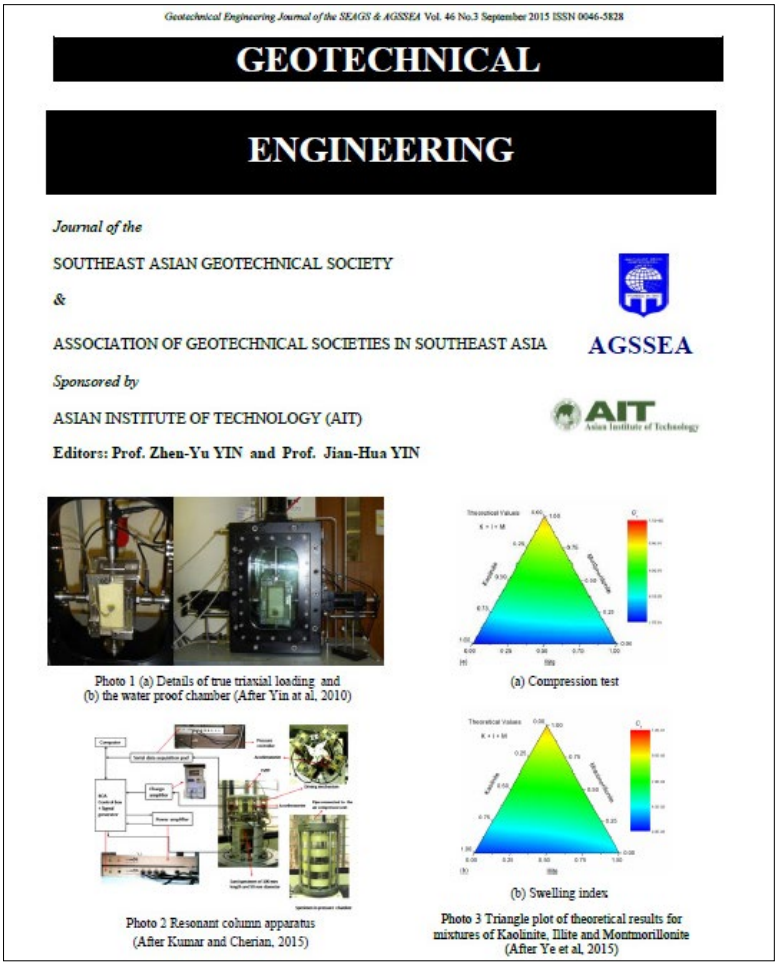
SEPTEMBER 2015 ▸ *http://seags.ait.asia/journals/seags-agssea-journal-september-2015/*

SPECIAL ISSUE ON SOIL BEHAVIOUR AND MODELLING

EDITORS

Prof. Zhen-Yu YIN

Prof. Jian-Hua YIN



PREFACE

This September 2015 issue of the journal contains fifteen interesting research papers and the details are described below. The time-dependency of the soft clay behaviour is studied in two papers by Wu *et al* and Ye *et al* as overview and interpretation of rate dependency and stress relaxation in soft clays respectively. In these papers, the strain rate dependent behaviour and under 1D and 3D stress conditions under complex loading conditions is studied through triaxial compression and extension tests under different OCR by Wu *et al* and the pore pressure development during stress relaxation by Ye *et al*. The latter paper also used stress relaxation curves in double logarithmic plane resulting in the development of a stress relaxation coefficient useful in analytical solutions for the 1D stress relaxation. A third paper by Bian *et al* proposes a new stress strain model based on CSSM for re-constituted clays which considers the effects of initial water contents. The model describes the undrained shear behaviour. With the decrease of initial water contents, the reconstituted clays experience enhanced strength, stiffness and dilation, which are not involved in the Modified Cam Clay model. These features can be captured by introducing a new hardening parameter ('quasi-structure' strength) into the conventional critical state model. The 'quasi-structure' strength increases with the decrease of initial water contents. The available test data on the undrained shear behaviour of reconstituted clays at different initial water contents are used to verify the proposed model, and the comparisons between computed and measured results show that the proposed model is able to predict the overall pattern of stress-strain curves, pore pressure variations and effective stress paths reasonably well, especially the ultimate undrained strength and pore pressure response at large strain.

The fourth paper is on the engineering behaviour of Shanghai soft clay by Lu *et al* by statistical analyses of the test data. The goodness-of-fits of normal distribution, log-normal distribution, exponential distribution and uniform distribution are assessed for each parameter using the Kolmogorov-Smirnov (K-S) method. The results show that the normal distribution is suitable for initial water content, specific

gravity, plasticity index, liquidity index and unit weight, the log-normal distribution is suitable for initial void ratio and plastic limit, the exponential distribution is suitable only for liquid limit, and the uniform distribution is not recommended.

Wang *et al* in the fifth paper deal with the dynamic behaviour of frozen soils. The dynamic response of frozen soils is one of the significant factors that should be taken into account when designing and constructing infrastructures in cold regions. This paper firstly reviews the state-of-the-art of dynamic testing techniques including dynamic uniaxial/triaxial test, resonant column test, wave velocity test and the SHPB test. Then the correlations of dynamic indexes for frozen soils with test conditions are analyzed i.e., dynamic modulus, dynamic strength, damping ratio as well as dynamic Poisson's ratio. The typical stress-strain relationships for frozen soils under dynamic loading are summarized such as empirical models, creep modelling and strength criterion for frozen soils. Finally promising prospects of the study in this paper is suggested.

Ye *et al* (in sixth paper) is on the mineral constituents of one dimensional compression behaviour of clayey soils. Only few data are available concerning the effect of the four main clay minerals, kaolinite (K), illite (I), montmorillonite (M) and chlorite (C), on the mechanical properties of clayey soils. This paper discusses the effect of different mineral contents on the compression and swelling indexes of clay mixtures in order to provide correlations between the mineralogical content of a clayey soil and its compressive properties. Four pure clay powders were used to prepare 34 clay mixtures (different proportions of K+I, K+I+M, K+I+C). Conventional oedometer tests were conducted on all the prepared samples. Based on the test results, the evolution of the compressive properties with the proportions of pure clays was estimated and relevant correlations are suggested. All the results demonstrate that the compression and swelling indexes are reasonably well correlated to the proportion of clay minerals. The content in montmorillonite influences significantly the compressive properties of clayey soils, and the contents of illite and chlorite are less influential when added to kaolinite based clayey soils. Moreover, 15 samples with different proportions of K+I+M+C were prepared and tested, and the proposed correlations were validated in light of the results obtained on these materials.

The seventh paper by Fan *et al*, investigates the addition of fine grained Zeolite on the compressibility and hydraulic conductivity of clayey soil treated with calcium bentonite and used as backfills for vertical cut off walls. Vertical cutoff walls, using backfill consisting of on-site sandy soil and Na-bentonite are widely used as engineering barriers for the purpose of achieving relatively low hydraulic conductivity and high contaminant sorption capacity. At some sites, locally available clayey soil, Ca-bentonite and natural zeolite may be considered as an alternate backfill. However, studies on the compressibility and hydraulic conductivity of zeolite-amended clayey soil/Ca-bentonite backfills for vertical cutoff walls are very limited. A series of one-dimensional consolidation tests is performed to evaluate the compressibility and hydraulic conductivity of fine-grained zeolite-amended clayey soil/Ca-bentonite backfills. Kaolin is used as the control clayey soil, and it is amended with various amounts of Ca-bentonite (5, 10, and 15%) and zeolite (2 - 40%) to prepare zeolite-amended kaolin-bentonite backfills. The results indicate that the addition of fine-grained zeolite has insignificant influence on the compressibility and hydraulic conductivity of clayey soil/Ca-bentonite and sandy soil/Na-bentonite backfills. The hydraulic conductivity of the zeolite-amended clayey soil/Ca-bentonite backfills is generally lower than the typical regulatory limit of 10-9 m/s. Two empirical methods, based on the Nagaraj's generalized void ratio (e/eL) and Sivapullaiah et al.'s method are assessed to predict the hydraulic conductivity of the backfills. The proposed method based on the Sivapullaiah et al.'s method is shown to estimate the hydraulic conductivity for the fine-grained zeolite-amended clayey soil/Ca-bentonite backfills with reasonable accuracy.

The eighth paper by Cheng and Saiyouri is titled effect of long term aggressive environments on the porosity and permeability of granular materials reinforced by nano-silica and sodium silicate. Colloidal nanosilica is a kind of new chemical grout materials for filling small pores of fine-grained soil. Compared to traditional sodium silicate material, the advantages and disadvantages of colloidal nanosilica are studied under laboratory conditions for pure gels and sand-gel mixtures for long-term volume stability. Sam-

ples of Fontainebleau sand injected by nanosilica and sodium silicate were conserved in dry air, water, salt solution and acid solution for 8 different time periods. The results show that pure gel of nanosilica is much more stable than pure gel of silicate sodium in all environments studied; from results of porosity, nanosilica does not has manifest advantages compared with sodium silicate; from results of permeability, nanosilica sand has more stable capacity of water-blocking in all environments.

The ninth paper by Deka *et al* is on strength of lime treated flyash using bentonite. The class "F" type Fly ash is non-cohesive and is normally strengthened or reinforced when used in structural fills. This paper deals with strength increase in unconfined compressive tests by pozzolanic reactions with lime and also bentonite.

The tenth paper is by Wang *et al* on soil deformation induced by underground tunnel construction. Development and utilization of underground railways can effectively ease the problem of urban traffic congestion. However, surrounding soil disturbance during tunnel excavation is likely to cause serious accidents. Thus, analyzing soil deformation during tunnel excavation is important. Through numerical simulation, this paper analyzes the influence of the step distance of a single-bore tunnel on the disturbance of the surrounding soil. Based on research on a single-bore tunnel, this paper further examines the effects of various spacing, locations, and excavation methods on the deformation of surrounding soils during parallel tunnel excavation. The results show that longer excavation steps lead to more intense disturbance to the surrounding soils. The most intense disturbance occurs at the ends of the tunnel. During new tunnel excavation, the tunnel crossing angle has stronger influence than the tunnel spacing on the original tunnel. Among the four excavation methods, single-bore advanced through is the most secure, whereas simultaneous excavation from opposite directions can cause the most intense disturbance to the surrounding soils. In practical operations, corresponding excavation methods can be employed according to specific conditions. Moreover, in-situ monitoring at key positions should be enhanced to avoid accidents.

The eleventh paper by Zhou *et al* is on full scale field tests on soil arching triggered during the construction of shallowly buried HDPE pipes. Soil arching significantly affects earth pressures around and above high-density polyethylene (HDPE) pipes in the construction phase. However, few studies have systematically addressed the change of soil arching with respect to soil cover thickness during the installation of HDPE pipes. This paper presents full-scale field investigations on the soil arching above and around three HDPE pipes buried shallowly in trenches. The results demonstrate that the soil arching developed in the backfill above the pipes is getting significant with increasing soil cover thickness. At a given soil cover thickness, more notable soil arching is found at a position closer to the pipe crown. The measured earth pressures acting on the pipe crown are compared with those estimated by the Marston load theory. It is found that the crown earth pressures estimated by the Marston's trench equation and embankment equation are 8% to 32% and 2% to 14% respectively higher than those obtained from the field tests. The results suggest that a threshold trench width is likely to exist when the Marston load theory is used for calculating the earth pressures on the top of HDPE pipes buried in the trench.

The twelfth paper is on a pollutant migration model considering solute decay in layered soil by Yu and Cai. Organic pollutant solute undergoes significant decay during the migration process in clay liner systems and foundation clay. Liner and foundation soil have layered properties. A one-dimensional computational model is established to calculate pollutant migration by considering the decay in layered soil medium. The separation of variable method is used to obtain the analytical solution. To verify the capability of the developed method, a typical example is illustrated by applying this model. The calculated results are compared with the results obtained from the GAEA Pollute v7. Consistent results demonstrate the reliability and validity of the proposed migration model, which can be a promising tool for landfill liner design when considering the organic pollutant decay.

The thirteenth paper is on effect of cyclic strain history on shear modulus of dry sand using resonant column tests by Jyant Kumar and Achu Catherine Cherian. A number of resonant column tests were

performed on dry sand specimens to examine the effect of cyclic shear strain history, by including both increasing and decreasing strain paths, on the shear modulus (G) for different relative densities (Dr) and confining pressures (σ_3). The specimen was subjected to a series of cycles of increasing and decreasing shear strain paths approximately in a range of 0.001-0.1%. For a particular cycle, with a given strain amplitude, the shear modulus during the increasing strain path becomes always greater than that during the decreasing strain path. For a given cycle, irrespective of relative density of sand, the difference between the values of G associated with the increasing and decreasing strain paths becomes always the maximum corresponding to a certain shear strain level. The maximum reduction in the shear modulus, due to the cyclic variation of the shear strain, was noted to be around one fourth of the maximum shear modulus (G_0). This reduction in the shear modulus on account of the cyclic variation of shear strain increases generally with decreases in the values of both relative density and confining pressure. The study will be useful to examine the response of sand media subjected to earthquake excitation.

Bhattacharya and Kumar are the authors of the fourteenth paper on vertical uplift capacity of circular anchor plates. Experimental and numerical investigations have been carried out to determine the vertical uplift resistance of circular anchor plates embedded in cohesionless soil media. Experimental studies are performed on model circular anchor plates placed at different depths in loose to medium dry sand deposit for two different relative densities, namely, 25% and 65%, respectively. The numerical work has been done by using an axisymmetric lower bound limit analysis in conjunction with finite elements and linear programming to compute the uplift resistance offered by circular anchor plates embedded horizontally in sand. In the case of numerical studies, the internal frictional angle of sand was varied from 20° to 45°. Both experimental and numerical studies clearly reveal that the uplift resistance of the circular plate increases considerably with increases in embedment ratio (H/D), and soil frictional angle (ϕ). The deformation of the anchor plate, corresponding to the failure load, increases with an increase in the values of H/D and relative density of sand. The values of the failure loads obtained from the computational analysis match well with the present experimental results as well with the available data from literature.

In this fifteenth paper by Benson Hsiung and Sy-Dan Dao, a simple method for predicting movements, especially the ground surface settlements, caused by deep excavations in sands is presented. The case history of deep excavation in thick layers of sand is adopted from Kaohsiung, Taiwan as the basis for numerical analyses. In order to improve the inconsistence in prediction of ground surface settlements induced by the deep excavation, the analysis using the simple constitutive model but with additional two factors, α and β is applied. The factor α defines the width of primary strain zone behind the retaining wall, and β indicates the difference of soil stiffness in two zones of the primary strain zone and small strain zone. It is concluded that changing α seems not to induce significant change, and values of β from 3 to 5 shall be taken once such approach intends to be adopted for predicting ground surface settlements caused by deep excavations in sands.

The editors are grateful to the authors and reviewers and are very pleased with the significant contributions made by them in making this Issue feasible to our SE Asian Geotechnical Community and others.

Zhen-Yu Yin
Jian-Hua Yin

Prof. Zhen-Yu Yin

Prof. Yin graduated from Zhejiang University, China in 1997 for his bachelor degree and from Ecole Centrale de Nantes, France in 2003 for his master degree. He got PhD from Ecole Centrale de Nantes, France in 2006 in the field of geotechnical engineering. He was promoted as professor in 2010 at Shanghai Jiao Tong University in China. Prof. Yin's research topics include: (1) constitutive modeling for saturated soils; (2) microstructure and micromechanics for soils; (3) improvement technology for soft soils; (4) finite

element analysis for geotechnical engineering. He has authored more than 50 papers in peer review journals such as Geotechnique, ASCE journals, IJSS, Nag etc.

In 2011, Prof. Yin was awarded "Professor of Exceptional Rank of Shanghai-Dongfang Scholar" by Shanghai Education Committee. Prof. Yin is now serving as committee member for both national and international associations (granular materials committee ASCE, Constitutive Relation and Strength Theory Committee of Chinese Society of Soil Mechanics and Geotechnical Engineering, Soil Mechanics Committee of Chinese Society of Theoretical and Applied Mechanics, Underground Engineering Committee of Shanghai Society of Civil Engineers). From 2010 up to 2012, Prof. Yin has received 8 research grants as main investigator, financed by European Union, Chinese National Science Foundation, Minister of Education of China, Shanghai Science and Technology Committee etc.

Prof. Jian-Hua Yin

Dr Jian-Hua Yin is currently a professor in the Department of Civil and Structural Engineering of The Hong Kong Polytechnic University. Professor Yin received a BEng degree in 1983 in Chinese Mainland, an MSc degree from Institute of Rock and Soil Mechanics of the Chinese Academy of Sciences in 1984, and a PhD from The University of Manitoba, Canada in 1990. Dr Yin has a mix of industrial and academic experiences. He joined Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University in 1995 as an Assistant Professor. He was promoted to an Associate Professor position in 1999, to a Professor position in 2002, and recently to the position of Chair Professor of Soil Mechanics in 2014. Professor Yin has a good track record in research and has played a leading role in development of advanced soil testing equipment, innovative fiber optical sensors, establishing a large- scale multi-purpose physical modeling facility for studying geo-hazards, organization of regional and international conferences. His research interests include (i) testing study of properties and behaviour of soils, (ii) elastic visco-plastic modeling, (iii) soft soil improvement, (iv) soil nails and slope analysis, (v) development and applications fiber optical sensors, (vi) soil-structure interface, and (vii) development of advanced/special lab test apparatus. Currently, Professor Yin serves as a Vice-President of International Association for Computer Methods and Advances in Geomechanics (IACMAG), Co-Editor of International Journal of Geomechanics, Co-Editor of Geomechanics and Geoengineering, and Associate Editor of Canadian Geotechnical Journal. He has received the honours of the prestigious "JOHN BOOKER Medal" in 2008, "Chandra S. Desai Excellence Award" in 2011 from IACMAG, and delivering the high-status 2011 "Huang Wenxi Lecture" in Chinese Mainland.

SPECIAL FEATURE STORY ON "Soil Mechanics at Emmanuel College –Elegant, Rigorous and Relevant"

By John Burland

Professor John Burland

Born in the UK, Professor Burland was educated in South Africa and studied Civil Engineering at the University of the Witwatersrand. He returned to England in 1961 and worked with Ove Arup and Partners for a few years.

After studying for his PhD at Cambridge University, John Burland joined the UK Building Research Station in 1966, became Head of the Geotechnics Division in 1972 and Assistant Director in 1979. In 1980 he was appointed to the Chair of Soil Mechanics at the Imperial College London. He is now Emeritus Professor and Senior Research Investigator at Imperial College.

In addition to being very active in teaching (which he loves) and research, John Burland has been responsible for advising on the design of many large ground engineering projects world-wide including the underground car park

at the Palace of Westminster and the foundations of the Queen Elizabeth II Conference Centre in London. He specialises in problems relating to the interaction between the ground and masonry buildings. He was London Underground's expert witness for the Parliamentary Select Committees on the Jubilee Line Extension underground railway and has advised on many geotechnical aspects of that project, including ensuring the stability of the Big Ben Clock Tower. He was a member of the international board of consultants advising on the stabilisation of the Metropolitan Cathedral of Mexico City and was a member of the Italian Prime Minister's Commission for stabilising the Leaning Tower of Pisa.

He has received many awards and medals including the Gold Medal for engineering excellence of the World Federation of Engineering Organisations and the Gold Medals of the UK Institution of Structural Engineers and of the UK Institution of Civil Engineers. In 1994 he was awarded the Kevin Nash Gold Medal of the International Society of Soil Mechanics and Geotechnical Engineering 'In recognition of outstanding services to ISSMGE, to International Goodwill and to International Geotechnical Practice and Education'. In 1996 he was awarded the Harry Seed Memorial Medal of the American Society of Civil Engineers 'for distinguished contributions as an engineer, scientist and teacher in soil mechanics'. He is a Fellow of both the UK Royal Academy of Engineering and of the Royal Society of London and was appointed Commander of the Most Excellent Order of the British Empire in 2005.

SPECIAL FEATURE STORY ON "Ground Improvement Methods for Port Infrastructure Expansion"

By Indraratna B., Heitor, A and Rujikiatkamjorn, C.

Prof. Buddhima Indraratna, PhD

Buddhima Indraratna is a Civil Engineering graduate from Imperial College, London, and obtained his PhD from the University of Alberta in 1987. He has worked in industry in several countries before becoming an academic at AIT during the period 1988-1991, in which he was an Assistant Professor and then Associate Professor. He was involved in a number of major infrastructure projects in Thailand and Southeast Asia during that time. Subsequently, his contributions to the analysis of 2nd Bangkok International Airport (Suvarnabhumi) are well-known and published in major international journals.

Prof Indraratna's significant contributions to geotechnical and railway engineering have been acknowledged through numerous national and international awards, including the 2016 Inaugural Ralph Proctor Lecture by the International Society of Soil Mechanics and Geotechnical Engineering, the most prestigious award in Transport Geotechnics. In 2009, he delivered the prestigious E.H. Davis Memorial Lecture of Australian Geomechanics Society for distinguished contributions to theory and practice of geomechanics. In 2014, he received the C.S. Desai Medal from the International Association for Computer Methods and Advances in Geomechanics (IACMAG) for outstanding contribution to geotechnical research and education. For his pioneering contributions to Australian railway innovations, he was honoured with the prestigious Business and Higher Education award by the Australian Government in 2009, Engineers Australia Transport Medal in 2011 and 2015 Australasian Railway Society's Outstanding Individual Award. Over the past two decades, he has also received numerous best paper awards, for example Thomas Telford Premium Award by the Institution of Civil Engineers, UK amd Robert Quigley Award by the Canadian Geotechnical Society. He was instrumental in changing the Australian standards the use of vertical drains in soft foundations soils and for revising the standards for railway ballast.

Prof Indraratna currently leads numerous projects funded by the Australian Research Council with over $15 million dollars over the past decade, and he has been a geotechnical consultant worldwide, and a United Nations consultant. He was also an Advisor to the Ministry of Science and Technology (Thailand)

for new railway network planning and design, and an Advisor to the Government of Sri Lanka on Post-tsunami rehabilitation of railways. He has more than 550 publications including over 230 reputed journal papers, 9 Books and over 45 invited keynote papers. He has supervised over 50 PhD graduates and 30 Postdoctoral Fellows.

Professor Indraratna is a Fellow of the most prestigious Australian Academy of Technological Sciences and Engineering (FTSE), as well as a Fellow of several professional organisations including the Institution of Engineers, Australia (FIEAust), American Society of Civil Engineers (FASCE), Australasian Institute of Mining & Metallurgy (FAusIMM) and the Geological Society of UK (FGS).

ACKNOWLEDGEMENT

This September 2015 Issue is edited by Profs. Zhen-Yu Yin and Jian-Hua Yin. They are to be congratulated for acquiring fifteen excellent papers, which covers a wide range of topics which will be of great value to researchers and practitioners. Details of the contents are in the Preface as compiled by the editors. They cover strain rate effects and stress relaxation with a new Stress strain Model as based on CSSM; the engineering behaviour of Shanghai soft clay is statistically analyzed; the dynamic behavior of frozen soils is studied using dynamic uniaxial/triaxial test, resonant column test, wave velocity test and the SHPB test. The addition of fine grained Zeolite on the compressibility and hydraulic conductivity of clayey soil treated with calcium bentonite and used as backfills for vertical cut off walls is also presented. Additionally, effect of long term aggressive environments on the porosity and permeability of granular materials reinforced by nano-silica and sodium silicate is also presented. The strength of lime treated flyash using bentonite is also studied in detail; the class “F” type Fly ash is non-cohesive and is normally strengthened or reinforced when used in structural fills. Soil deformation induced by underground tunnel construction is of importance. Among the four excavation methods, single-bore advanced through is the most secure, whereas simultaneous excavation from opposite directions can cause the most intense disturbance to the surrounding soils. In practical operations, corresponding excavation methods can be employed according to specific conditions. Moreover, in-situ monitoring at key positions should be enhanced to avoid accidents.

Full scale field tests on soil arching triggered during the construction of shallow buried HDPE pipes is also presented. Soil arching significantly affects earth pressures around and above high-density polyethylene (HDPE) pipes in the construction phase. The paper here presents full-scale field investigations on the soil arching above and around three HDPE pipes buried shallowly in trenches.

Organic pollutant solute undergoes significant decay during the migration process in clay liner systems and foundation clay. Liner and foundation soil have layered properties. A one-dimensional computational model is established to calculate pollutant migration by considering the decay in layered soil medium. The thirteenth paper is on effect of cyclic strain history on shear modulus of dry sand using resonant column tests by Jyant Kumar and Achu Catherine Cherian. A number of resonant column tests were performed on dry sand specimens to examine the effect of cyclic shear strain history, by including both increasing and decreasing strain paths, on the shear modulus (G) for different relative densities (Dr) and confining pressures(σ_3). The study will be useful to examine the response of sand media subjected to earthquake excitation.

Bhattacharya and Kumar are the authors of the fourteenth paper on vertical uplift capacity of circular anchor plates. Experimental and numerical investigations have been carried out to determine the vertical uplift resistance of circular anchor plates embedded in cohesionless soil media. The numerical work has been done by using an axi- symmetric lower bound limit analysis in conjunction with finite elements and linear programming to compute the uplift resistance offered by circular anchor plates embedded horizontally in sand. Finally, Benson Hsiung and Sy-Dan Dao presented a simple method for predicting movements, especially the ground surface settlements, caused by deep excavations in sands. The case history of deep excavation in thick layers of sand is adopted from Kaohsiung, Taiwan.

No doubt, this Issue will be most useful to our Profession and all those who are engaged in Pile Foundation Research and Practice. Sincere thanks to all who have contributed to the success of this issue of our journal under the able leadership of Profs. Zhen-Yu Yin and Jian-Hua Yin.

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

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SPECIAL ISSUE ON PROBLEMATIC SOILS INCLUDING CONTAMINATED SOILS

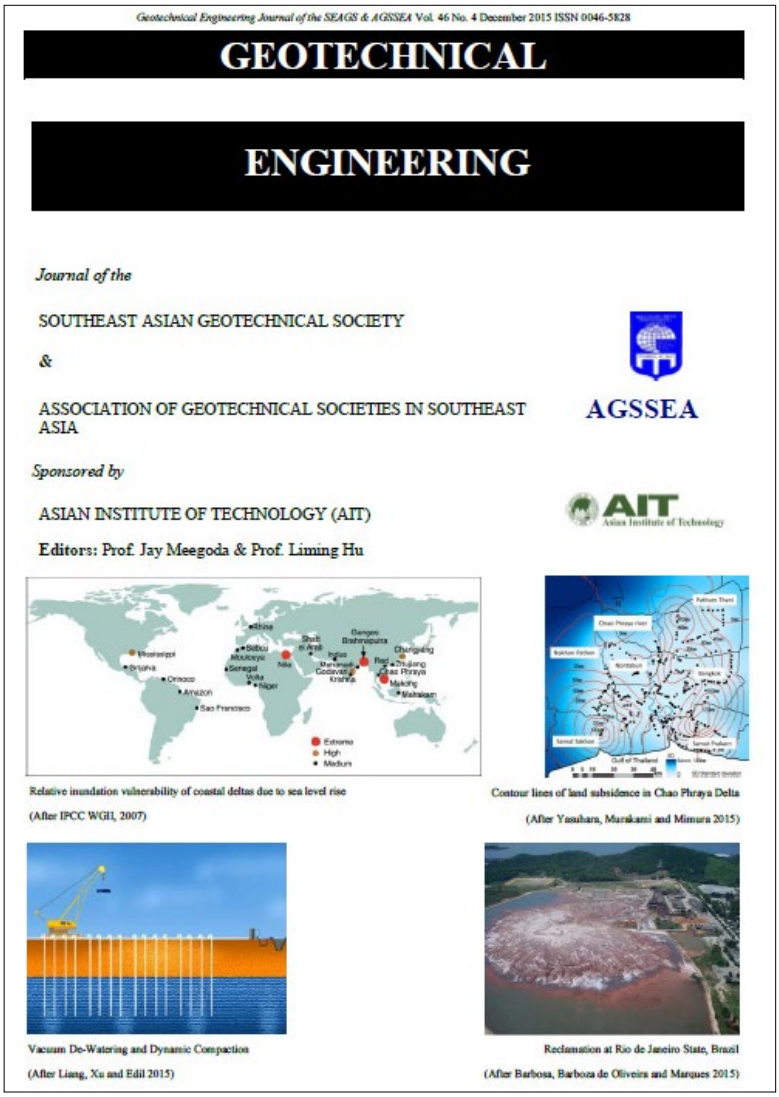
EDITORS

Prof. Jay Meegoda

Prof. Liming Hu

PREFACE

Welcome to Geotechnical Engineering Journal of the Southeast Asian Geotechnical Society (SEAGS) and the Association of Geotechnical Societies in Southeast Asia (AGSSEA). It is our great pleasure to serve as the guest editors for the last issue of 2015. It is also a special issue dedicated to on Problematic Soils including Contaminated Soils. This December 2015 issue of the journal contains fifteen interesting research papers and the details are described below.



First six papers are on contaminated soils or groundwater and their remediation. Next two papers are on electro-osmosis drainage. Next three are on ground improvement. Last four are on interesting or emerging topics such as education, impact of rise in sea level, numerical analysis and theoretical analysis.

We specifically requested Professor Chrysochoou to describe Geochemistry in Geotechnical Engineering Problems and set the tone for the issue. In this paper Professor Chrysochoou uses Ettringite, which is a problematic mineral found in soils as well as concrete, as case study to elaborate Geochemistry and how that is related to Geotechnical Engineering.

In the second paper Professor Meegoda and his team describes the Engineering Properties of Chromium Contaminated Soils. The chromite ore processing activities have over 2 million tons of processed chromium ore residue in Hudson County, New Jersey. This is a hazardous waste needing proper disposal. Professor Meegoda and his team explored the feasibility of using as construction

material or to be used as brownfield type remediation.

Dr. Nithya and his team explored heavy metal sorption characteristics of two geo-materials in the third paper. The mobility of heavy metals into the environment as a result of mining, industrial and agricultural activities such as that described in the second paper is of major concern and engineers are exploring ways to absorb those heavy metals. Dr. Nithya and his team performed batch sorption experiments to evaluate suitability of two soils found in India as sorbents for heavy metals.

In the fourth paper Professor Mulligan and her student explored reduction of Chromium in water and soil using a biosurfactant "Rhamnolipid." Rhamnolipid is readily biodegradable biosurfactant with a very low environmental impact. Professor Mulligan and her student performed batch experiments to evaluate the feasibility of using Rhamnolipid for the removal and reduction of hexavalent chromium from contaminated soil and water.

Professor Barbosa and her team describe details of a reclamation project of a brownfield site containing 1.2 million cubic meters of mineral waste pile inside a 260,000 m2 liquid waste pond in Rio de Janeiro State, Brazil, the fifth paper of this issue. Professor Barbosa and her team proposed technical solution that included the complete draining of the liquid pond, accompanied by on site treatment, a hydraulic barrier of pump & treat wells and the construction of an engineered waste containment facility using the mineral solid waste as compacted earth fill material combined with geosynthetics.

A review of acidic groundwater remediation in the Shoalhaven floodplain in Australia, is given by Professor Indraratna and his team in the sixth paper. Acidic groundwater generated from acid sulfate soils create unfavorable environmental conditions. Professor Indraratna and his team installed a pilot-scale permeable reactive barrier showing that it is a promising technology for long-term remediation acidic groundwater.

Electro-osmosis is an effective technique for soft ground improvement. However with the continuous application of electrical energy the effectiveness of electro-osmosis decreases with increase in soil resistance. The intermittent application of the current is one way to overcome this problem. Hence Professor Hu and his team describe an experimental and a numerical study of electro-osmosis on kaolinite under intermittent current in the seventh paper.

A new type of electro-kinetic geo-synthetics (EKG) electrode to avoid the electrode corrosion and provide an effective drainage channel was developed for electro-osmosis drainage, and its performance was evaluated by Professor Shen and his coworker in the eighth paper.

The title of the ninth paper is innovative soft soil improvement method through intelligent use of vacuum dewatering and dynamic compaction. This research was performed by Professor Liang and his team.

Professor Shivashankar and his team provide the tenth paper entitled "Some Studies on Engineering Properties, Problems, Stabilization and Ground Improvement of Lithomargic Clays." They performed laboratory studies to determine engineering and strength properties of these lithomargic clays and stabilized soils. Then they reported ways to improve sites containing Lithomargic Clays.

The eleventh paper describes laboratory investigation of stone column reinforcement of a soft South African clay by Professor Kalumba and his coworker.

Professor Bouassida and his team describe the results of a numerical modelling study of Tunis soft clay in the twelfth paper.

A framework for the de-structuring of clays during compression, is the title of thirteenth paper and it is a theoretical study performed by Professor Horpibulsuk and his colleagues.

In the fourteenth paper Professor Yasuhara and his colleagues describe impact of inundation caused by sea-level rise combined with land subsidence, a modern day problem.

Last but not least is the fifteenth paper by Professor Scharle and his colleague. This is an invited paper on challenges of educating our younger generation in Geotechnical Engineering.

The guest editors are grateful to the authors and reviewers for their contributions. We are very pleased with the significant contributions made by authors in making this Issue feasible to our SE Asian Geotechnical Community and others.

Jay N. Meegoda
Liming Hu

Jay N. Meegoda

Prof. Jay N. Meegoda

Dr. Meegoda is the director of Geotechnical Program and a Professor of Civil and Environmental Engineering at New Jersey Institute of Technology. He received his BS (Honors) from University of Sri Lanka and his M.S. and his Ph.D. from the University of California at Davis. He has been working as educator, consultant and researcher in engineering for over 35 years. He utilizes scientific concepts and engineering technologies in his research to provide solutions to real world problems. Dr. Meegoda has worked with state and local governments, and foreign governments to provide technical input for broad range of problems.

Dr Meegoda has worked on three major research areas. His primary research is in Mechanics of Geo-Environmental Engineering, which includes Engineering Properties of Contaminated Soils, Centrifugal Modeling of Contaminant Movement in Soils and Remediation of Contaminated Soils, Micro-mechanics of Soils, Reuse of Contaminated Soils, and Ultrasound. His second major research area is sustainable use of waste, which is still under the broad area of Geo-environmental Engineering. It includes Modeling of Bio-reactor Landfill performance, Sustainable Waste Management and Construction use of waste. Recently Dr. Meegoda initiated his third research area, the sustainable infrastructure initiative, which includes Performance of pipes and development of next generation of pipes, Management of underground infrastructure and Pavement texture and snow/ice management to limit accidents. He has offered numerous short courses worldwide, and teaches graduate and undergraduate courses at New Jersey Institute of Technology on Geotechnical and Geo-environmental Engineering.

Dr. Meegoda as PI has successfully concluded several multidisciplinary research projects worth over $7M from agencies such as NSF, USEPA, US Army, FHWA, NJDOT and NJDEP that provided broader impact to the society. Some of those technologies are now extensively used while others are to be commercialized. He has published over 150 papers. He has one patent and applied for one provisional patent. He received the research implementation award from the New Jersey Department of Transportation in 2011 for his Culvert Information Management Research, the best theoretical paper award from the Environmental and Water Resources Institute of ASCE in May 2012 for his research collaboration with China and the best practice paper award from the Environmental and Water Resources Institute of ASCE in May 2001 for the paper describing the results of one USEPA SITE demonstration project.

Dr. Meegoda currently serves Associate Editor of the ASCE Journal of Hazardous, Toxic, and Radioactive Waste Management, Editorial Board Member ASTM Geotechnical Testing Journal, Journal of Traffic and Transportation Engineering, Springer Journal on Waste and Biomass Valorization and The Scientific World Journal, Guest editor, Journal of Hazardous Materials, special issue on Contaminated Dredged Sediments and Associate Editor of the 4th International Symposium on Environmental Geotechnology and Global Sustainable Development. He is a guest/research/visiting professor/scholar of six different universities. He has research collaborations spanning all six continents. He was invited to deliver keynote lectures and invited lectures at numerous events around the world. At NJIT, he was instrumental in setting up the NJIT chapter of Engineers without Borders and is currently serving as the faculty advisor.

Prof. Liming Hu

Prof. Liming Hu

Dr. Hu is an Associate Professor of Geo-environmental Engineering, and the Deputy Director of Institute of Geotechnical Engineering of Tsinghua University in China. He is also the senior Research Scientist at State Key Laboratory of Hydro-Science and Engineering (SKLHSE), and the director of the Geo-environmental Research Centre. He obtained double Bachelors in both Hydraulic Engineering and Environmental Engineering from Tsinghua University in 1995, and MEng and Ph.D. in Geotechnical Engineering from the same university in 2000. Then he worked as post-doctoral Research Associate at the Department of Civil Engineering of Hong Kong University of Science and Technology (HKUST) from 2000 to 2002. Since April 2002, Dr. Hu joined in Tsinghua University. He has supervised 15 Master students and 6 Ph.D. students.

Dr. Hu's research interests focuses on contaminant transport, soil/groundwater remediation, valorization of solid waste, and landfill design in field of Geo-environmental Engineering, as well as soft ground improvement and soil-structure interaction in field of Geotechnical Engineering. He has more than one hundred publications in peer-reviewed journals, and owns 12 invention patents and 3 software packages.

Dr. Hu obtained numerous notable honors and awards due to his outstanding research achievements, such as 2013 First-Class State Award for Inventions by Chinese Central Government, 2013 Outstanding Young Scholar at Tsinghua University, 2013 Scientific Research Award from Hubei Province, 2012 Best Theoretical-Oriented Paper by ASCE Environment and Water Resources Institute, and 2012 Outstanding Young Scholar by Chinese Society for Rock Mechanics and Engineering, 2007 New Century Excellent Talents in Chinese Universities by Ministry of Education, 2005 New Star in Science and Technology by Beijing Municipal Government, and so on.

Now Dr. Hu serves as Chair of Committee for Chinese Young Geotechnical Engineers; Chair of Technical Committee on Soil Contamination and Remediation, and Core Member of the Institution of Geo-Environmental Engineering under Chinese Society for Rock Mechanics and Engineering; and Vice-Chairman of Committee for Geo-Environmental Engineering under Chinese Institution of Soil Mechanics and Geotechnical Engineering. He is also the life member of Southeast Asian Geotechnical Society (SEAGS), member of American Society of Civil Engineers (ASCE), Member of International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), and Member of International Society for Rock Mechanics (ISRM), Member of American Chemistry Society (ACS), etc. Dr. Hu also serves as a member of TC215 (Environmental Geotechnics) of ISSMGE.

SPECIAL FEATURE STORY ON
"Challenges in Going Underground in Big Cities"
By L. John Endicott

Dr. John Endicott

Dr. John Endicott has been an Adjunct Professor at Hong Kong University of Science and Technology and at the University of Hong Kong. He has been practicing in Hong Kong since 1975 and is well known as an all-round geotechnical practitioner in South East Asia. He has worked on many projects on underground railway stations, metro lines, major roads, viaducts and foundations in Singapore as well as in Bangkok, Malaysia, Korea, Indonesia, India and China. He has been an expert witness in many projects including the collapse of the Nicoll Highway in Singapore.

HISTORIC NOTE ON "Underexcavating the Tower of Pisa: Back to Future"

By John Burland, Michele B. Jamiolkowski, and Carlo Viggiani

Professor John Burland

Professor John Burland

Born in the UK, Professor Burland was educated in South Africa and studied Civil Engineering at the University of the Witwatersrand. He returned to England in 1961 and worked with Ove Arup and Partners for a few years.

After studying for his PhD at Cambridge University, John Burland joined the UK Building Research Station in 1966, became Head of the Geotechnics Division in 1972 and Assistant Director in 1979. In 1980 he was appointed to the Chair of Soil Mechanics at the Imperial College London. He is now Emeritus Professor and Senior Research Investigator at Imperial College.

In addition to being very active in teaching (which he loves) and research, John Burland has been responsible for advising on the design of many large ground engineering projects world-wide including the underground car park at the Palace of Westminster and the foundations of the Queen Elizabeth II Conference Centre in London. He specialises in problems relating to the interaction between the ground and masonry buildings. He was London Underground's expert witness for the Parliamentary Select Committees on the Jubilee Line Extension underground railway and has advised on many geotechnical aspects of that project, including ensuring the stability of the Big Ben Clock Tower. He was a member of the international board of consultants advising on the stabilisation of the Metropolitan Cathedral of Mexico City and was a member of the Italian Prime Minister's Commission for stabilising the Leaning Tower of Pisa.

He has received many awards and medals including the Gold Medal for engineering excellence of the World Federation of Engineering Organisations and the Gold Medals of the UK Institution of Structural Engineers and of the UK Institution of Civil Engineers. In 1994 he was awarded the Kevin Nash Gold Medal of the International Society of Soil Mechanics and Geotechnical Engineering 'In recognition of outstanding services to ISSMGE, to International Goodwill and to International Geotechnical Practice and Education'. In 1996 he was awarded the Harry Seed Memorial Medal of the American Society of Civil Engineers 'for distinguished contributions as an engineer, scientist and teacher in soil mechanics'. He is a Fellow of both the UK Royal Academy of Engineering and of the Royal Society of London and was appointed Commander of the Most Excellent Order of the British Empire in 2005.

Professor Michele Jamiolkowski

Professor Michele Jamiolkowski

Professor Michele Jamiolkowski has been the Emeritus Professor of C.E., Technical University of Torino since 2008. In addition, he has also been the Founder and Chairman of the Engineering Consultant Company, Studio Geotecnico Italiano; Foreign Member of the Polish Academy of Science; Member of the Lagrangian Academy of Science, Torino; and Editor in Chief of the International Journal Geomechanics and Geoengineering.

In addition to his outstanding academic record, Professor Jamiolkowski has also been involving in many world famous mega-projects such as Geotechnical Consultant for the Suspension Bridge over Messina Straits, Geotechnical Consultant for the Engineering Company Technital designer of the MOSE Project in Venice for Safeguarding Venice from high tides etc. He was also the President of the International Society for Soil Mechanics and Geotechni-

cal Engineering between 1994 and 1997, and also the Chairman of the International Committee for Safeguard of the Leaning Tower of Pisa between 1999 and 2000. Currently, he is still serving as the Member of the International Advisory Group of the European Bank for Reconstruction and Development for the design and construction of the New Safe Confinement of the reactor in Chernobyl Nuclear Power Plant; the Chairman of the International Board Expert for Development of the Second World Largest Copper Mine Tailings Depository Zelazny Most in Poland; the Geotechnical Consultant for the Venice Defence System against Water; the Chairman of the Technical Committee for Safeguard of Rome Monuments During Construction of the New Subway Line C Underpassing Historical Town Centre; and the Foreign Associate US National Academy of Engineering.

For his outstanding achievement, Prof. Jamiolkowski is the recipient of numerous awards or honors, such as K. Terzaghi and R.B. Peck Awards from the ASCE; E. De Beer Awards from the Belgian Geotechnical Society; Honorary International Member of the Japanese Geotechnical Society; Doctor Honoris Causa: University of Bucharest, University of Ghent, SGGW, Life University (Warsaw); Recipient of the Italian Prize "Savior of the Art"; Honorable International Member of the Japanese Geotechnical Society since 1998; Honorary Professor Academia Sinica of Guangzhou, China; and Commendatore of the Italian Republic bestowed by the President of Italy.

Other distinctions of Professor Jamiolkowski include 1985 Theme Lecturer at the XI International Conference SMFE, San Francisco, US; 1986 James Forrest Lecture, ICE, London, UK ; 1991 Cross Canada Lecture Tour. Canadian Geotechnical Society ; 1994 John Buchanan Lecturter, University of Texas at Austin; 1997 Manuel Rocha Lecture in Lisbon; 2000 George Hendris Memorial Lecturer, University of Western Australia, Perth; 2001 Terzaghi Oration at the XV ICSMGE in Istanbul; 2002 Szechy Memorial Lecture in Budapest; 2002 Kersten Lecture. University of Minnesota US; 2004 Keynote Lecturer at the Skempton Conference at Imperial College in London; 2004 Keynote Lecturer 15th SEAGC, Bangkok; 2006 R.B. Peck Lecturer at the ASCE Geo-Institute in Atlanta; 2006 4th G.A. Leonards Lecture, University of Purdue, US; 2007 XIV ECSMFE, Madrid, Special Lecture; 2009 XVII ICSMGE, Great Project Lecturer, Alexandria; 2010 1st Za-Chieh Moh Lecturer, in Taipei, Taiwan; 2011 3rd V. De Mello Lecturer, in Lisbon; 2013 53rd Rankine Lecturer, in London; 2014 1st Tchebotarioff Lecturer in St. Petersburg; and 2014 6th J. K. Mitchell Lecture.

Professor Jamiolkowski is the author and co-author of more than 250 publications, journal with referee & international conference.

Professor Carlo Viggiani

Professor Carlo Viggiani graduated in Civil Engineering in 1960 at the University of Napoli; PhD in Geotechnical Engineering in Napoli in 1969. He has been teaching in a number of Italian Universities; since 1975, at the University of Napoli Federico II where is, at present, Emeritus Professor of Foundation Engineering. Is Author or Co-Author of 4 books and more than 200 technical papers. He has been Editor of the Italian Geotechnical Journal; component of the Editorial Board of the Journal of Numerical and Analytical Methods in Geomechanics; at present he is editor of the series "Argomenti di Geotecnica" (Issues in Geotechnics) of the publisher Hevelius.

Professor Carlo Viggiani

He has been State of the Art Reporter at the ICSMFE in New Delhi, 1994 (Mitigation of Natural Hazards: Landslides and Subsidence) and at the ICSMGE in Osaka, 2005 (Pile foundations).

Chairman of TC19 (later TC301) (Preservation of Monuments and Historic Sites) of the ISSMGE, he participated to the conservation of a number of monuments affected by geotechnical problems. From 1990 to 2002 member of the International Committee for the Safeguard of the Leaning Tower of Pisa; presently member of the Monitoring and Surveillance Committee of the Tower.

Involved in the design and construction of a number of civil engineering structures; among them earth dams, civil and industrial buildings, bridges, tunnels and underground constructions, stabilisation of landslides. Consultant for Italian Railways and Underground Transportation Systems in Rome, Napoli, Torino, Bologna, Firenze. Involved in the design of the suspension bridge over the Messina Straits.

ACKNOWLEDGEMENT

The December 2015 Issue of the Journal on problematic and contaminated soils are edited by Prof. Jay Meegoda and Prof. Liming Hu. They did an excellent job within a short time and also forwarded all the completed documents well in time for the Journal Production team under the Leadership of Dr. Ooi at IEM, Malaysia.

There are 15 papers in this Issue with a paper on "Characteristics and Consequence of Nepal Earthquake 2015: A Review" by A S M Fahad Hossain, Tuk Lal Adhikari, Mehedi Ahmed Ansary and Quazi Hamidul Bari, a Feature story by Dr. John Endicott on "Challenges in Going Underground in Big Cities" and a historic note on "Underexcavating the Tower of Pisa: Back to Future" by John B. Burland, Michele B. Jamiolkowski and Carlo Viggiani. This historical note was first published in 2000 before full underexcavation of the Tower was carried out. Work on the Tower has now been successfully completed and an up-date on the behavior of the Tower can be found in Burland et al (2009).

The guest editors have adequately covered the important aspects of the papers: First six papers are on contaminated soils or groundwater and their remediation. Next two papers are on electro-osmosis drainage. Next three are on ground improvement. Last four are on interesting or emerging topics such as education, impact of rise in sea level, numerical analysis and theoretical analysis. It is rewarding to note the authors of the papers cover all continents. It is a clear indication of the International nature of the Journal.

There were numerous Guest editors from 2011 to 2015; each and every one of them brought innovation and scholarly contribution both in research and practice. The journal continues to have page lengths suitable for the authors to comprehensively present their contributions. As a cost cutting measure the hard copy of the journal is only produced after all the soft copies are produced and this is a bound volume made available to all in the middle of the subsequent year. The soft copies are released spot on time in March, June, September and December each year. All articles are reviewed by more than two reviewers; Prof. Jay Meegoda and Prof. Liming Hu used an excellent set of reviewers.

The Issues in 2016 are devoted to AGSSEA country contributions and will be released by Taiwan Geotechnical society editors in March 2016, followed by the editors in Singapore, Hong Kong and Malaysia for the June, September and December Issues respectively. This will be followed by the Anniversary Issues in 2017. It is anticipated that the journal will also have a higher level of standard from the 51st year of the formation of SEAGS in 1967.

It is a genuine pleasure to have the excellent contributions in this December 2015 Issue and to record our vote of thanks to the Guest Editors Prof. Jay Meegoda and Prof. Liming Hu, the authors of the articles, the reviewers and all those who have contributed to the success in this Issues as well as the previous such Issues from 2011. It is important to thank Prof. San Shyan Lin for his varied contribution to SEAGS-AGSSEA in addition to his duties in the editorial team as a most valued member.

No doubt the contribution of the articles in this Issue, the Feature story and the historic note will further add prestige to the success story of the journal.

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

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HISTORY of SEAGS and AGSSEA

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

HISTORY

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

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

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

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

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

SEAGS-AGSSEA PARTNERSHIP

SEAGS Southeast Asian Geotechnical Society

AGSSEA ASSOCIATION OF GEOTECHNICAL SOCIETIES IN SOUTHEAST ASIA

SEAGS and the Asian Institute of Technology

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

International Affiliations

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

The President & past Presidents of the Society

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

The Secretary General & past Secretary-General of the Society

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

TAIWAN CHINESE TAIPEI GEOTECHNICAL SOCIETY (CTGS)

Report on 16ARC bid of Chinese Taipei Geotechnical Society

Der-Wen Chang, CTGS Director Board member and SEAGS General Committee member

The fifteenth Asian Geotechnical Conf. on Soil Mechanics and Geotechnical Engineering was held in Fukuoka International Convention Center on Nov. 9-12, 2015. In the late afternoon of November 10, a council meeting of Asian Geotechnical Societies was hosted by the Vice President for Asia of ISSMGE, Prof. Ikuo Towhata. ISSMGE President Prof. Roger Frank was at the Conf. and joined the meeting with the representatives from Asian Societies. A voting was made to decide the host of the sixteenth Conference.

As in the beginning, three societies including Thai Geotechnical Society, Iranian Geotechnical Society and Chinese Taipei Geotechnical Society are in the campaign. After moderations among the AGSSEA council members, Thai Geotechnical Society kindly gave her courtesy and support to CTGS for the bid. Chinese Taipei finally received the permission to host **16ARC**. The result of voting was 16:6 among the 22 Societies who are valid to vote. Taiwan as a young ISSMGE member successfully earned the host of 16ARC.

The Conf. will be held in **Taipei** on **October 21-25, 2019**. The main theme of the Conf. is **Geotechnique for Sustainable Developments and Emerging Market Regions**. The International Advisory Board of 16ARC is chaired by Dr. Za-Chieh Moh while the Organizing Committee will be chaired by CTGS President Prof. Chang-Yu Ou. The Conf. website will be ready in May 2016. It is the sincere wish of CTGS that 16ARC will be warmly supported by Asian Societies and particularly the AGSSEA members. The advance of Geotechnical Technologies in Asia shall be shared again and remarked as a glory in ARCs history.

Group photo taken at Hakata Hyakunen-Kura hosted by CTGS on November 12, 2015

CONFERENCE REPORT: The 1st International Conference on Geo-Energy and Geo-Environment (GeGe2015) in Hong Kong

December 4th – 5th, 2015

The 1st International Conference on Geo-Energy and Geo-Environment (GeGe2015) successfully took place on December 4th – 5th, 2015 at the Hong Kong University of Science and Technology (HKUST; Figure 1) Jockey Club Institute for Advanced Study (IAS). The event was jointly organised by the HKUST, the HKUST Jockey Club IAS, the School of Engineering and Department of Civil and Environmental Engineering of HKUST, Chongqing University, Hohai University, Zhejiang University, and the École Polytechnique Fédérale de Lausanne (EPFL). Support was received from the Hong Kong Geotechnical Society, the Geotechnical Division of the Hong Kong Institution of Engineers, and TC215 Environmental Geotechnics and TC308 Energy Geotechnics of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE).

Figure 1. (a) HKUST and (b) IAS, the conference venue

The conference featured two IAS distinguished lectures and 12 invited keynotes delivered by prominent professors and researchers from around the world.

IAS distinguished lecturers	**Presentation topic**
Prof. J. Mitchell	Induced seismicity considerations in geo-energy resource development
Prof. R. K. Rowe	Engineered liners in geoenvironmental engineering: from landfills to mining applications

Keynote speakers

Geo-Energy (4th Dec)

Prof. S. Lacasse	Geo-energy, risk and elements for maintaining sustainability of our resources
Prof. L. Laloui	Analysis of the thermo-mechanical behaviour of geothermal heat exchanger foundations
Prof. H. L. Liu	Model tests on the settlement of energy piles with different tube types
Prof. C. W. W. Ng	Performance of energy piles: centrifuge modelling
Prof. J. C. Satamarina	Energy geo-engineering: storage
Prof. K. Soga	Shallow geothermal energy at city scale
Prof. L. Z. Wang	Recent advances in deep water pipeline geotechnics

Geo-Environment (5th Dec)

Prof. A. Bouazza	GCLs in composite liners subjected to high temperatures: case of brine ponds in unconventional gas extraction sites
Prof. Y. M. Chen	Numerical modelling of biochemical, hydraulic and mechanical behaviours for landfills with high-food-waste-content MSW
Prof. Y. F. Gao	Extension of three-dimensional failure mechanism in stability analysis of earth slopes
Prof. C. W. W. Ng	A new alternative all-weather earthen landfill cover system
Prof. T. L. T. Zhan	Performance of a compacted loess/gravel cover as a capillary barrier and landfill gas emission controller in Northwest China

The first day of the conference (4th Dec) was named the "Geo-Energy day". After the opening speeches by Prof. Tony Chan, President of the HKUST, and Prof. Charles, W. W. Ng, Chair of the GeGe2015, the IAS distinguished lecture was delivered by Prof. James Mitchell (Figure 2) followed by seven keynote lectures in the same morning. In the afternoon, 19 speakers who submitted extended abstracts presented the key elements of their work in five-minute pitch sessions. During coffee breaks, each speaker had the opportunity to further present their work to the participants through the medium of posters (Figure 3). The presentations covered two main topics: Energy Geo-structures and Storage and Methane Hydrate and Energy Extraction.

▲ *Figure 2. Prof. Mitchell delivers IAS distinguished lecture*

▲ *Figure 3. Speakers engage in poster discussion during coffee break*

The second day of the conference (5th Dec), named the "Geo-Environment day", had a similar conference format to that on the first day. Prof. Kerry Rowe, another IAS distinguished lecturer, shared his experiences and insights on the engineering design of liners in landfills and mining applications (Figure 4). This was then followed by five keynote presentations and 35 pitch sessions (Figure 5), which covered a wide range of interesting topics including Waste Characterization and Landfill Leachate, Waste Storage Systems, Bio-geotechnology and Green Slopes and Groundwater Protection and Recycled materials.

▲ *Figure 4. IAS distinguished lecturer, Prof. Rowe (middle), receives a souvenir from the Chair of GeGe2015, Prof. Ng (left), and the Chair of the lecture session, Prof. Lacasse (right)*

Each participant took home a conference proceeding containing extended abstracts of all IAS distinguished lectures, keynote lectures and poster presentations. Authors of some of the selected abstracts will be invited to submit a full paper to be revised and published in one of the following journals: *Canadian Geotechnical Journal*, *Geomechanics for Energy and the Environment*, and *Journal of Zhejiang University—Science A*.

The conference dinner was held at the end of the first day on a Star Ferry sailing the Victoria Harbour of Hong Kong (Figure 6). Delegates took in the wonderful night scene of the harbour from the comfort of the ferry while enjoying a sumptuous dinner.

◀ *Figure 5. An author who submitted an extended abstract to the conference gives his five-minute pitch*

▲ *Figure 6. The Star Ferry where the conference dinner was held*

The conference also included tours to the Geotechnical Laboratory and Geotechnical Centrifuge Facility (GCF) at HKUST in the afternoon of the Geo-Environment day. Figure 10 shows the student helpers introducing and explaining the working principles of some of the specialized geotechnical testing equipment developed at HKUST. The student helpers also showed the delegates some of the typical centrifuge model test setups in the GCF that are used in geo-energy and geo-environment research (Figure 11(a)). Figure 11(b) shows a unique 5 m long flume apparatus for studying the impact of debris flow on the environment and its remediation.

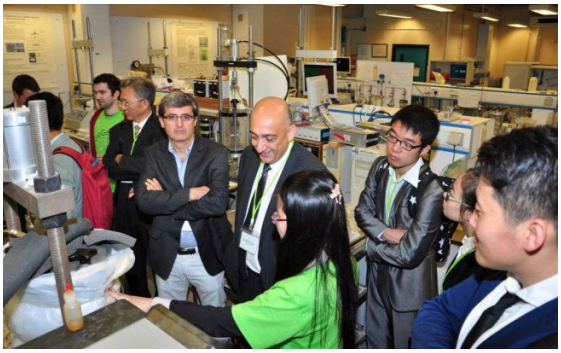

Figure 10. Tour of the Geotechnical Laboratory at HKUST

Figure 11. Tour of the GCF at HKUST; (a) the beam centrifuge and (b) 5 m-long flume apparatus

At the end of day two, the two IAS distinguished lecturers, professors J. Mitchell and K. Rowe, and the Chairs of TC215 (Prof. A. Bouazza) and TC308 (Prof. M. Sanchez) gave their closing remarks. The Chairman of GeGe2015 (Prof. C. W. W. Ng; Figure 12) closed with heartfelt thanks to all who contributed to the enormous success of the conference (Figure 13).

At the end of the conference, it has been announced that the 2nd GeGe Conference (GeGe2017) will be held two years later in 2017 at Zhejiang University, Hangzhou, China.

Dr Anthony Leung *(Organising Committee of GeGe2015)*
and
Hong Kong Geotechnical Society

Click here to view more details and photos from the GeGe2015 conference.

Figure 12. The Chair of GeGe2015, Prof. C. W. W. Ng, delivers closing remarks

Figure 13. Group photo of delegates, participants, organizers and helpers of GeGe2015

Vice President for Asia

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International Society for Soil Mechanics and Geotechnical Engineering

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Introduction

The Centre for Geotechnical and Materials Modelling (CGMM) was formally established in 2007 as a Priority Research Centre at The University of Newcastle, Australia. At its inception, the group consisted of sixteen research staff and fifteen research students. Since then, the group has roughly doubled in size to become one of the largest geotechnical research groups worldwide, including thirty staff members and over thirty postgraduate students. In 2011, the CGMM combined with the Centre for Offshore Foundation Systems at The University of Western Australia and the Centre for Geotechnics and Railway Engineering at the University of Wollongong to form the Australian Research Council (ARC) Centre of Excellence for Geotechnical Science and Engineering, a collaborative research centre which has received total funding of approximately $23M over a seven-year period, including sponsorship from the industry partners Coffey Geotechnics (recently acquired by Tetra Tech), Douglas Partners, and Fugro Advanced Geomechanics.

The CGMM broadly focuses on the development of new models and innovative computational methods, coupled with laboratory and field testing, for predicting the behavior of multiphase geomaterials in infrastructure and mining applications. Its staff possess a diverse range of expertise in computational mechanics, geotechnical engineering, geological engineering, rock mechanics, and environmental engineering. The group's strong background in advanced computational modeling is complemented by proficiency and facilities for sophisticated laboratory testing and field testing. The latter includes the industry-focused research performed using the *in situ* testing facilities NewSyd and NewTracks, as well as the work being completed at Australia's first National Soft Soil Field Testing Facility (NFTF) at Ballina, New South Wales. The NFTF includes two heavily-instrumented embankments to proof test new technologies at field scale prior to adoption by industry. Geotechnical experts from around the world have been invited

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Facility (NFTF) at Ballina, New South Wales. The NFTF includes two heavily-instrumented embankments to proof test new technologies at field scale prior to adoption by industry.

Geotechnical experts from around the world have been invited to forecast the performance of these embankments at an international prediction symposium to be held in Newcastle in September 2016 (cgse.edu.au/eps2016). These predictions will involve cutting-edge numerical modeling based on high quality data, and allow the limitations of current design practice to be identified clearly.

This article provides a sample of recent and ongoing research in the CGMM across nine themes: (1) computational geomechanics, (2) unsaturated soil mechanics, (3) in situ testing, (4) sampling, (5) soft soil engineering, (6) georisk and geohazards, (7) rockfall analysis, (8) buried pipelines, and (9) soil-machine interaction. Additional themes not covered due to space limitations include environmental geotechnics (e.g., georemediation) and multiscale modeling.

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2016

First South African Geotechnical Conference
Date: Thursday 05 May 2016 - Friday 06 May 2016
Location: Sun City,25.3403° S, 27.0908° E, South Africa
Language: English
Organizer: Geotechnical Division of the South African Institution of Civil Engineering (SAICE)
E-mail: info@geotechnicaldivision.co.za
Website: www.geotechnicaldivision.co.za

Underground Construction Prague 2016
Date: Monday 23 May 2016 - Wednesday 25 May 2016
Location: Clarion Congress Hotel Prague Prague, Czech Republic
Language: English
Organizer: Czech Tunnelling Association
Contact person: SATRA, spol. s r. o.
Address: Sokolská 32, 120 00, Prague 2, Czech Republic
Phone: +420 296 337 181
Fax: +420 296 337 189
E-mail: ps2016@satra.cz
Website: http://www.ucprague.com

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

International Mini Symposium Chubu (IMS-Chubu)
Date: Thursday 26 May 2016 - Saturday 28 May 2016
Location: Disaster Mitigation Research Building, Nagoya University, Nagoya, Aichi, Japan
Language: English
Organizer: The Japanese Geotechnical Society
Contact person: International Affairs Department, Japanese Geotechnical Society
Address: 4-38-2 Sengoku, Bunkyo-ku, 112-0011, Tokyo, Japan
Phone: +81-3-3946-8671 • Fax: +81-3-3946-8678 • E-mail: kokusai@jiban.or.jp
Website: https://www.jiban.or.jp/index.php?option=com_content&view=article&id=1737:2016052628&catid=16:2008-09-10-05-02-09&Itemid

SEAGC2016
Date: Tuesday 31 May 2016 - Friday 03 June 2016
Location: Dorsett Grand Subang, Subang Jaya, Selangor, Malaysia
Language: English
Organizer: Malaysian Geotechnical Society and Institution of Engineers, Malaysia
Contact person: SEAGC2016 Secretariat
Address: c/o IEM Training Centre Sdn Bhd, No.33-1A (1st Floor) Jalan 52/18, PO Box 224 (Jalan Sultan), 46720, Petaling Jaya, Selangor, Malaysia
Phone: +(603) 7958 6851 • Fax: +(603) 7958 2851
E-mail: seagc2016@gmail.com / choy.iemtc@gmail.com
Website: www.mygeosociety.org/SEAGC2016

Fourth International Conference on New Developments in Soil Mechanics and Geotechnical Engineering
Date: Thursday 02 June 2016 - Saturday 04 June 2016
Location: Near East University, Nicosia, North Cyprus, Turkey
Language: English
Organizer: Turkish Society of Soil Mechanics and Geotechnical Engineering and Near East University
Contact person: Cavit Atalar
Address: Near East University, PO Box 670, Nicosia, North Cyprus, Mersin 10,TURKEY
Phone: 0090 392 223 6464 • Fax: 0090 392 223 6461
E-mail: zm2016@neu.edu.tr, zm2016@kibris.net • Website: http://zm2016.neu.edu.tr/

12th International Symposium on Landslides
Date: Sunday 12 June 2016 - Sunday 19 June 2016
Location: Naples, Italy
Language: English
Contact person: Italian Geotechnical Association (AGI)
Address: Viale dell'Università, 11 - 00185, Roma, Italy
Phone: +39 064465569 - 0644704349 • E-mail: agi@associazionegeotecnica.it
Website: http://www.isl2016.it/

1st International Conference on Natural Hazards & Infrastructure: Protection, Design, Rehabilitation
Date: Tuesday 28 June 2016 - Thursday 30 June 2016
Location: Minoa Palace Resort & Spa, Chania, Crete, Greece
Address: Pampouki 3, N. Psychiko,15451, Athens, Greece
Phone: +30 210 7723383, +30 210 6721798
E-mail: secretary@iconhic2016.com
Website: http://iconhic2016.com/

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

1st International Conference on Energy Geotechnics ICEGT 2016
Date: Monday 29 August 2016 - Wednesday 31 August 2016
Location: Auditorium Maximum (Audimax) of Kiel University, Kiel, Germany
Language: English
Organizer: ISSMGE TC308 on Energy Geotechnics
Contact person: ICEGT 2016 Secretariat
Address: Ludewig Meyn Str. 10, 24118, Kiel, Germany
Phone: +49 - (0) 431 - 880 1976 • Fax: +49 - (0) 431 - 880 4376
E-mail: secretary@icegt-2016.de
Website: http://www.iceg-2016.de/

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

Fifth International Conference on Geotechnical and Geophysical Site Characteristion (ISC'5)
Date: Monday 05 September 2016 - Friday 09 September 2016
Location: QT Hotel, Gold Coast, QLD, Australia
Language: English
Organizer: Leishman Associates
Address: 113 Harrington St, 7000, Hobart, TAS, Australia
Phone: 03 6234 7844 • E-mail: hannah@laevents.com.au • Website: http://www.isc5.com.au

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

XVIII Brazilian Conference on Soil Mechanics and Geotechnical Engineering - COBRAMSEG 2016
Date: Wednesday 19 October 2016 - Saturday 22 October 2016
Location: Minascentro, Belo Horizonte, MG, Brazil
Language: Portuguese and English
Organizer: ABMS - Brazilian Society for Soils Mechanics and Geotechnical Engineering
E-mail: contato@cobramseg2016.com.br
Website: http://www.cobramseg2016.com.br/

SFGE 2016 – Shaping the Future of Geotechnical Education – International Conference on Geo-Engineering Education
Date: Thursday 20 October 2016 - Saturday 22 October 2016
Location: Minascentro, Belo Horizonte, MG, Brazil
Language: English
Organizer: ISSMGE TC306 and ABMS - Brazilian Society for Soil Mechanics and Geotechnical Engineering
Contact person: Michele Calvello
E-mail: sfge2016@cobramseg2016.com.br / michele.calvello@gmail.com
Website: http://cobramseg2016.com.br/index.php/sfge-sobre/?lang=en

5th International Conference on Geotechnical Engineering and Soil Mechanics
Date: Monday 14 November 2016 - Wednesday 16 November 2016
Location: Tehran, Iran
Organizer: International Conference on Geotechnical Engineering and Soil Mechanics
Contact person: 009888931328
Address: Unit2, No 14, Eftekharnia Alley, Larestan St, Motahari Ave, 1595914911 Tehran, Iran
Phone: 009888931507
Fax: 009888931275
E-mail: info@igs.ir
Website: www.igs.ir

2017

GeoMEast 2017
Date: Saturday 15 July 2017 - Wednesday 19 July 2017
Location: Sharm El-Sheikh, Egypt
Language: English
Organizer: The Egyptian Housing and Building Research Center (HBRC) in cooperation with the Soil-Structure Interaction Group in Egypt (SSIGE)
Contact person: Hany Farouk Shehata
Address: Tower C, Maamora Towers, 7th District, Nasr City, 11727 ,Cairo, Egypt
Phone: +201110666775
E-mail: hanyfarouk808@gmail.com
Website: http://www.geomeast2017.org/

ICSMGE 2017 - 19th International Conference on Soil Mechanics and Geotechnical Engineering, Seoul
Date: Sunday 17 September 2017 - Thursday 21 September 2017
Location: Coex Convention Center, Seoul, Korea
Language: English and French
Organizer: Organising Committee of ICSMGE 2017
Contact person: Ms. Soi LEE
Address: 4F, SUNGJI Building, 192, Bangbae-ro, Seocho-gu, 137-835, Seoul, Republic of Korea
Phone: +82-2-6288-6347
Fax: +82-2-6288-6399
E-mail: secretariat@icsmge2017.org
Website: http://www.icsmge2017.org

2018

The 7th International Conference on Unsaturated Soils (UNSAT2018)
Date: Friday 03 August 2018 - Sunday 05 August 2018
Location: The Hong Kong University of Science and Technology (HKUST), Hong Kong, China
Language: English
Organizer: The Hong Kong University of Science and Technology (HKUST)
Contact person: Prof. Charles W. W. Ng (Chair), Miss Shirley Tse (Administrative Secretary)
or Dr Anthony Leung (Technical Secretary)
Address: Geotechnical Centrifuge Facility, The Hong Kong University of Science and Technology,
Clear Water Bay, Kowloon, HKSAR, China
Phone: (852) 2358-0216
Fax: (852) 2243-0040
E-mail: unsat2018@ust.hk
Website: http://www.unsat2018.org

ECSMGE 2019 – XVII European Conference on Soil Mechanics and Geotechnical Engineering
Date: Sunday 01 September 2019 - Friday 06 September 2019
Location: Harpa Conference Centre Reykjavik, Iceland
Language: English
Organizer: The Icelandic Geotechnical Society
Contact person: Haraldur Sigursteinsson
Address: Vegagerdin, Borgartún 7, IS-109, Reykjavik, Iceland
Phone: +354 522 1236
E-mail: has@road.is
Website: http://www.ecsmge-2019.com

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Website link ▸ http://seags.ait.asia/submission-services/guest-editors/

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5.2 June: Special Issue on Pile Foundations
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5.4 December: Special Issue on Problematic Soils Including Contaminated Soils
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International Conference on Earthquake Engineering and Post Disaster Reconstruction Planning

24-26 April 2016, Bhaktapur, Nepal

http://seags.ait.asia/news-announcements/international-conference-earthquake-engineering-post-disaster-reconstruction-planning-2016-nepal/

Message From Chairman

On behalf of ICEE-PDRP 2016 organizing committee, I am honored to welcome you all to the International Conference on Earthquake Engineering and Post Disaster Reconstruction Planning at Bhaktapur, the Cultural Capital of Nepal.

Nepal, being located in the very central part of the active Himalayan Arch, has been witnessing several devastating earthquakes. The devastation of the great 1934 Nepal-Bihar Earthquake and recent 2015 Gorkha Earthquake demands the experts and acedemicians from around the world to get together with a purpose. The 7.8 Mw Gorkha Earthquake and its aftershocks claimed 8,856 people's lives and 22,309 people got injured. In Bhaktapur district alone, 333 people were killed, and 2,101 people were injured. Total of 613,741 buildings collapsed completely, and 289,316 buildings got partially damaged in the country. In Bhaktapur district, around 19,000 buildings coollapsed completely, and 9,125 buildings were partially damaged. At this moment, I believe this conference will serve as the platform to understand earthquake and its effects and aid to build earthquake disaster resilient society in Nepal and in the world.

Read more...

19TH SOUTHEAST ASIAN GEOTECHNICAL CONFERENCE & 2ND AGSSEA CONFERENCE (19SEAGC-2AGSSEAC)/(SEAGC2016)

Deep Excavation and Ground Improvement

31 May – 03 June 2016, Kuala Lumpur Malaysia

http://seags.ait.asia/news-announcements/19seagc-2agssea-malaysia-2016/

Organized by Southeast Asian Geotechnical Society (SEAGS), Association of Geotechnical Societies in Southeast Asia (AGSSEA), Malaysian Geotechnical Society (MGS) and The Institution of Engineers, Malaysia (IEM).

INTRODUCTION

The 19th Southeast Asian Geotechnical Conference and 2nd Association of Geotechnical Societies in Southeast Asia will be held in Kuala Lumpur, Malaysia on 31 May – 3 June 2016. A pre-conference short course will be held on 29 May 2016 by Prof K. Ishihara & Prof I. Towhata and a post conference short course on 3 June 2016 by Prof H. Poulos. The Southeast Asia Young Geotechnical Engineers' Conference will be held on 30 May 2016.

The Southeast Asian Geotechnical Society was founded in 1967 at AIT Bangkok by Dr Za-Chieh Moh. In 2007 the Association of Geotechnical Societies in Southeast Asia was founded also by Dr Za-Chieh Moh.

At the 17SEAGC held in Taipei in 2010, it was decided that the 18SEAGC-1AGSSEA Conference will be held in Singapore in 2013. The Singapore Conference was a great success with more than 350 participants.

This 19SEAGC-2AGSSEAC to be held in Kuala Lumpur, Malaysia is also expected to be well supported and successful.

The Conference will have an Opening Keynote Address, Chin Fung Kee Lecture, Za-Chieh Moh Lecture, S L Lee Lecture, Keynote Lectures, Special Lectures, and Special Session Lectures to be delivered by distinguished geotechnical experts and eminent academicians. Contributed papers from member countries and abroad will also be presented.

Read more...

OPENING KEYNOTE ADDRESS

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

CHIN FUNG KEE LECTURE

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

ZA-CHIEH MOH LECTURE

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

S L LEE LECTURE

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

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Website: www.mygeosociety.org/seagc2016

EUROSOIL 2016

17-22 July 2016, Istanbul, Turkey ▸ *http://seags.ait.asia/news-announcements/eurosoil-2016-istanbul/*

Dear Colleagues and Friends,

As President of European Confederation of Soil Science Societies (ECSSS) and of 5th EUROSOIL International Congress, I am delighted to invite you to Istanbul to participate in the EUROSOIL Congress that will be held between 17 July and 22 July 2016.

Following the successful 4th EUROSOIL Congress in 2012 in Bari, we have now a great pleasure to welcome you in Istanbul, one of the most attractive, historical, and cultural cities in the world.

EUROSOIL 2016 will be a unique opportunity to provide an outstanding setting for all participants including young soil scientists, researchers, technical and Professional operators, company representatives and policy makers to share their projects, scientific experiences, innovations and ideas about the soil science.

The choice of the keynotes and invited speakers who will be chosen from not only Europe but all continents of our globe will set high standard and new visions in the field of soil science. Sessions covering all aspect of soil science and social and cultural events will help culminating the success of the Congress.

Read more...

6th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics

01-06 August 2016, India

- *http://seags.ait.asia/news-announcements/6th-international-conference-recent-advances-geotechnical-earthquake-engineering-soil-dynamics-2016-india/*

About the Conference

This International Conference is in continuation of the previous five such conferences organized by the Missouri University of Science & Technology, Rolla (US), under the chairmanship of Prof. Shamsher Prakash. All the conferences have proved to be highly successful events.

The Conference shall have invited Keynote Lectures, State of the Art & Practice (SOAP) lectures, Special Lectures and contributed original research papers for discussion and publication in the proceedings. Contributions are expected from over 40 countries.

Read more...

IC3G 2016 International Conference on Geo-mechanics, Geo-energy and Geo-resources

28-29 September 2016, Melbourne, Australia

- *http://seags.ait.asia/news-announcements/international-conference-on-geo-mechanics-geo-energy-and-geo-resources-ic3g-2016-australia/*

IC3G
International Conference on
Geomechanics, Geoenergy and Georesources

"Challenge the limits with knowledge"

Advances in physical processes in subsurface earth materials to enhance deep Earth energy and mineral extractions, and greenhouse mitigation

Conference Themes

To date, deep Earth resources remain poorly understood and entirely under-utilised. There is a growing appreciation of the important role deep Earth will play in future sustainability, particularly in opportunities for new and sustainable large-scale energy alternatives, and extraction of resources through mining and greenhouse mitigation.

This conference is aimed at promoting discussion of strategies to address challenges in developing geo-energy

and geo-resources extraction, and greenhouse mitigation measures through deep earth from the perspective of geomechanics and geophysics.

We warmly encourage researchers in the broad geomechanics and geophysics communities to join this event.

Read more...

COBRAMSEG/SBMR 2016

19 to 22 October 2016, Brazil

http://seags.ait.asia/news-announcements/cobramseg-sfge-2016/

COBRAMSEG/SBMR is the most important event of the Brazilian geotechnical community and a unique opportunity to present and discuss new advances and challenges imposed increasingly on the practice of Geotechnics.

In its 18th edition, COBRAMSEG/SBMR 2016 will host four great events:

XVIII Brazilian Conference on Soil Mechanics and Geotechnical Engineering

VII Brazilian Symposium on Rock Mechanics

VII Brazilian Symposium and V South American Young Geotechnical Engineers Conference

International Conference on Geo-Engineering Education – Shaping the Future of Geotechnical Education

About

In 2016 we will be celebrating the legacy of 62 years since our first COBRAMSEG, and 50 years since Belo Horizonte had the honor of hosting the most important event of Brazil´s Geotechnical calendar. Much has passed since, and our country underwent a complete transformation since the distant year of 1966, when Minas Gerais embraced with our traditional hospitality the "3º Congresso Brasileiro de Mecânica dos Solos", our 3rd National Conference. Even then, the Brazilian Geotechnical community already hinted its upcoming major role in the worldwide Geotechnical scenario, with Professor Costa Nunes being elected vice-president of the International Society of Rock Mechanics (ISRM) for South America, and Odair Grillo appointed honorary president of the Brazilian Geotechnical Society (ABMS).

Read more...

INTERESTING WEBSITES

SGI - Line

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

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

SGI-Line is produced by the Swedish Geotechnical Institute, Sweden. Most of the documents, books, articles in journals, papers in conference proceedings, reports, theses, ets, referred to in the database are available in the SGI Library.

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

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

QuadSearch

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

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

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

ICE Virtual Library

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

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

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

Geotechnical software sites

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

http://www.usucger.org

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

http://alert.epfl.ch

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

http://www.geoengineer.org

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

http://www.ascelibrary.org

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

Other Links:

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

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

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

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

SoilVision Systems *http://www.soilvision.com/*

GAEA Technologies *http://www.gaea.ca/*

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

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