THE SECOND INTERNATIONAL WORKSHOP ON CHARACTERISATION & ENGINEERING PROPERTIES OF NATURAL SOILS

29 November - 1 December 2006
Furama RiverFront Hotel, Singapore

Organised by
CENTRE FOR SOFT GROUND ENGINEERING

Main Sponsor

Co-Sponsored by

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INTRODUCTION

At the end of November 2002, the Centre for Soft Ground Engineering at the National University of Singapore organised an International Workshop on the Characterisation and Engineering Properties of Natural Soils in Singapore. The aim was to produce a book containing high quality invited and refereed papers which described the characterisation and engineering properties of a wide range of natural soils, including soft clays, stiff clays, weak rocks, sands and residual soils. The workshop elicited tremendous support from many well known researchers in the area of soil characterisation. The proceedings produced comprise 3 overview papers and 34 soil-specific papers in two volumes containing 1560 pages! These papers were presented at the workshop over 3 days. Since then, many colleagues around the world have brought the attention of members of the Advisory Committee to the excellent works done by a number of other authors on a number of different soils not covered in the first proceedings. As the aim of this initiative was to produce a set of reference papers that are as complete as possible, it becomes necessary for us to organise a second workshop to complete this project. Again, we have been able to invite 31 well-known researchers to present their works at this workshop. The workshop will present 3 overview papers on laboratory testing, in-situ testing, and characterisation of natural soil variability. 15 papers will also cover less well-documented soil types such as organic clays and peats, loess, volcanic soils, residual soils, methane hydrate soils, and recent sediments. The remaining papers cover topics such as alluvial and marine clays, highly fissured clays, boulder clay, silts, and natural soil variability. Together with the soil-specific and overview papers from the first workshop, this will constitute a truly remarkable collection of detailed information on natural soils of all types from all over the world. It will be a truly memorable event.

This bulletin is to provide you with the relevant information on how you can participate in this unique event which will be held from 29 November to 1 December 2006.

WORKSHOP ADVISORY AND ORGANISING COMMITTEE

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<tr>
<th>Advisory Committee</th>
<th>Local Organising Committee</th>
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<tr>
<td>Dr. David Hight (Chairman - UK)</td>
<td>Associate Professor Tan Thiam Soon (Chairman – National University of Singapore)</td>
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<td>Professor Serge Leroueil (Canada)</td>
<td>Associate Professor Phoon Kok Kwang (Secretary – National University of Singapore)</td>
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<td>Professor Jacques Locat (Canada)</td>
<td>Professor Leung Chun Fai (Treasurer – National University of Singapore)</td>
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<td>Mr Tom Lunne (Norway)</td>
<td>Associate Professor Leong Eng Choon (Nanyang Technological University)</td>
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<td>Dr. Hiroyuki Tanaka (Japan)</td>
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<td>Professor Yong Kwet Yew (Singapore)</td>
<td>Mr Tang Sek Kwan (Amberg &amp; TTI Engineering Pte Ltd)</td>
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<td>Dr. Goh Siang Huat (National University of Singapore)</td>
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<td>Dr. David G. Toll (Durham University)</td>
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PAPERS TO BE PRESENTED

All the papers to be presented would contain the following information:

• The soil, its location, distribution, local and global importance.
• Engineering geology, including source of material, depositional environment, post-depositional processes and timing and stress history
• Composition
• State and index properties
• Structure
• Engineering properties
• Comments on quality/reliability of data may be provided, with reference to methods of sampling and laboratory testing used and standards followed in in-situ testing
• Engineering problems including a summary of typical problems and hazards and with references to case histories

Overview Papers

Well-known experts have also been invited to present three overview papers.

Laboratory Testing of Natural Soils - Some Factors Affecting Performance
C. R. I Clayton and D. W. Hight

In-Situ Test Calibrations for Evaluating Soil Parameters
P. W. Mayne

Soil Variability Analysis for Geotechnical Practice
M. Uzielli, S. Lacasse, F. Nadim, and K. K. Phoon

Invited Papers

In this workshop, all papers are by invitation only. The following authors have accepted our invitation to submit a paper to the workshop and present them during the workshop.

Alluvial Clays
Engineering Characteristics of Taipei Clay
C-T. Chin, J-R. Chen, I-C. Hu, D. T. C. Yao, and H-C. Chao

Characterization of Alluvial Deposits in Mekong Delta
J. Takemura, Y. Watabe, and M. Tanaka

Geotechnical Properties of Hachirogata Clay
H. Tanaka

Marine Clays
Geology, Characterization and Properties of Beaufort Sea Clays
D. E. Becker, M. G. Jefferies, J. H. A. Crooks, and K. Been

Depositional Geochemistry and Geotechnical Properties of Marine Clays in the Ariake Bay Area, Japan
M. Ohtsubo, T. Higashi, M. Kanayama, and M. Takayama

Characterisation and Engineering Properties of Troll Clay
T. Lunne, M. Long, and M. Uzielli
Very Stiff Clays
The Mechanical Behaviour of Intensely Fissured High Plasticity Clays from Daunia
F. Cotecchia, C. Vitone, F. Cafaro, and F. Santaloia
Characterisation and Engineering Properties of Dublin Boulder Clay
M. Long and C. O. Menkiti

Organic Clays & Peats
Characterisation and Engineering Properties of Recife Soft Clays - Brazil
R. Q. Coutinho
Characterisation and Engineering Properties of Dutch Peats
E. J. den Haan and G. A. M. Kruse
Characterization of Escuminac Peat and Construction on Peatland
A. O. Landva

Loess
Loess from China
Geotechnical Characterization and Behaviour of Argentinian Collapsible Loess
V. A. Rinaldi, R. J. Rocca, and M. E. Zeballos

SiltS
Geotechnical Characterization and Properties of Venice Lagoon Heterogeneous Silts
P. Simonini, G. Ricceri, and S. Cola

Volcanic Soils
Mechanical Properties of Pyroclastic Soils in Campania Region
Colombian Volcanic Ash Soils
M. C. Herrera, A. Lizcano, and J. C. Santamarina
Pyroclastic Flow Deposits from the Colli Albani: the Example of the Pozzolana Nera
G. M. B. Viggiani and M. Cecconi
Geotechnical Characteristics of a Pumice Sand
L. D. Wesley

Residual Soils
The Laboratory Behaviour of A Residual Tropical Soil
M. M. Futai, M. S. S. Almeida, and W. A. Lacerda
Small-strain Stiffness of Granitic and Volcanic Saprolites in Hong Kong
C. W. W. Ng and E. H. Y. Leung
Weathered Granite in Japan
Y. Tanaka
Characterization and Engineering Properties of The Old Alluvium in Puerto Rico
G. Zhang, A. J. Whittle, J. T. Germaine, and M. A. Nikolinakou

Methane Hydrate Soils
Characterisation and Engineering Properties of Methane Hydrate Soils
K. Soga, S. L. Lee, M. Y. A. Ng, and A. Klar
Recent Sediments
Characterisation of Postglacial Sediments of the Saguenay Fjord, Quebec, Canada
C. L. Levesque, J. Locat, and S. Leroueil

Dealing with Variability of Natural Soils
Statistical Soil Characterization of Italian Sites for Reliability Analyses
C. Cherubini, G. Vessia, and W. Pula
Spatial Variability of Sensitive Champlain Sea Clay and an Application of Stochastic Slope Stability Analysis of a Cut
P. Chiasson and Y-J. Wang
Modeling the Natural Variability of Over-consolidated Clay in Adelaide, South Australia
M. B. Jaksa
Uncertainty-based Characterisation of Troll Marine Clay
M. Uzielli, S. Lacasse, F. Nadim, and T. Lunne

REGISTRATION INFORMATION

For this workshop, the total number of papers is capped, so that there will be adequate time for discussion among participants. The number of participants at the workshop will also be capped, so as to ensure that vigorous and fruitful interactions can take place. To ensure that every participant will have time to interact with other participants both intellectually and socially, lunch and two tea-breaks will be provided every day. We will also host a dinner every night, so that all participants will have ample time to interact and discuss with each other. Thus we hope all participants would treat the entire workshop as a three-day retreat to maximise the opportunity to build friendship and understanding for the future.

As the total number of participants will be capped, it is important for you to register early to ensure a place at this unique event.

Participants would have to pay a sum of SGD 1000. The registration fee covers daily coffee breaks, lunches and dinners, as well as a copy of the workshop proceedings.

Local participants will also receive:

• **Professional Development Units** – For local participants, this workshop will be registered with the Professional Engineers Board, and relevant hours would be provided later on.
VENUE

The workshop will be held at:

**Furama RiverFront Singapore**
405 Havelock Road
Singapore 169633
Tel: (65) 6333 8898
Fax: (65) 6733 1588
Email: riverfront@furama.com
Website: http://riverfront.furama.com

OFFICIAL HOTEL

We urge you to stay at our official hotel to enjoy a special accommodation rate for workshop participants and to facilitate logistics matters:

**Furama RiverFront Singapore**
405 Havelock Road
Singapore 169633
Contact Person: Mr Kwan H. F.
Tel: (65) 6739 6426
Fax: (65) 6732 7025
Email: reservations.riverfront@furama.com
Website: http://riverfront.furama.com

Please make your hotel reservation as soon as possible to enjoy this rate and to avoid the end-of-the-year peak period and festive seasons. Please note that participants who are staying in other hotels will have to make their own travel arrangements to attend all the functions organised.

CONTACT INFORMATION

Should you require further information, feel free to contact the Workshop Secretariat at:

**Professional Activities Centre**
Faculty of Engineering
National University of Singapore
9 Engineering Drive 1
Singapore 117576
Tel: (65) 6516 5113
Fax: (65) 6874 5097
Email: ns2006@nus.edu.sg
Website: http://www.eng.nus.edu.sg/civil/conf/NS2006
REGISTRATION FORM

Participant’s Details:
Salutation*: Prof / Dr / Mr / Madam / Mrs / Ms / Miss  * Delete accordingly
Name (please capitalise surname/family name): ___________________________________________
Organisation/Department: ____________________________________________________________
Designation: _______________________________________________________________________
Mailing Address: _____________________________________ City/State: _____________________
Country: ____________________________________________ Postal Code:_____________________
Telephone: ___________________________________ Fax: ________________________________
E-mail: ___________________________________________________________________________
Delegate Fee: **S$ 1000.00**

Names of Additional Participants:
1. _______________________________________ 2. ______________________________________
3. _______________________________________ 4. ______________________________________

Payment Details (please tick appropriate box):
☐ Cheque/Bank Draft  ☐ Telegraphic Transfer  ☐ Credit Card (Visa/Mastercard)
(made payable to “NATIONAL UNIVERSITY OF SINGAPORE”)
Name on Card: ____________________________ Signature: ____________________________
Credit Card No (VISA/MASTER): ____________________________ Expiry Date: _____________
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For telegraphic transfers, please remit to:
Name of Bank: The Development Bank of Singapore
Bank: Buona Vista Branch
Address: Blk 43 Holland Drive, #01-53/59, Singapore 270043
Bank Code: 7171
Beneficiary Name: National University of Singapore
Swift Code: DBSSSGSG
Ref: NS2006
Account No: 032-000313-3

Registration & Cancellation Information:
• Registration fee includes proceedings, refreshments, lunches and dinners.
• Confirmation of registration will be via e-mail or post upon receipt of full payment of registration fee.
• All cancellations have to be in writing & received on or before 30 October 2006. Fee paid will then be partially refunded (that is, registration fee paid less administration fee of **S$200.00**). The Secretariat regrets that refund will not be considered for cancellation after 30 October 2006. However, replacements will be accepted.
2nd INTERNATIONAL WORKSHOP ON CHARACTERISATION AND ENGINEERING PROPERTIES OF NATURAL SOILS
National University of Singapore
29 November to 01 December 2006

Attn: Mr Kwan H. F. DID: (65) 6739 6478 FAX: (65) 6732 7025
E-mail: kwanhf@furama.com

☐ New Booking ☐ Amendment ☐ Cancellation (√ Pls tick accordingly)

1. Name : Prof/Dr/Mr/Ms ________________________________
2. Name : Prof/Dr/Mr/Ms ________________________________
3. Name : Prof/Dr/Mr/Ms ________________________________

Arrival Date : ____________ Flight No. : ____________ Expected time of arrival : ____________
Departure Date : ____________ Flight No. : ____________ No. of Rooms : ____________
No. of Guests : ____________ Expected time of departure : ____________
Room Type : ____________ Room Rate (Daily) : ____________

Room Type                          Room Rate
Deluxe Room       Single / Twin S$125/135nett
Executive Club    Single / Twin S$175/195nett

Room rates are inclusive of buffet breakfast
❖ All rates quoted are inclusive of 10% service charge & prevailing government taxes, per room per night.

Remarks :

Contact Person : ________________________________ Tel : ________________________________ Fax : ________________________________

FOR GUARANTEE PURPOSES
All reservations must be guaranteed with credit card number & expiry date. For guaranteed reservations, rooms will be held till 12:00 noon the next day. Any cancellation 72 hours prior to the arrival or ‘No-Show’ is subject to a one-night room charge.

Credit Card : AMEX / DINERS / JCB / MASTER / VISA
Name of Card Holder :
Card No. : ________________________________ Expiry Date : ________________________________
Signature :

FOR OFFICIAL USE
THIS SERVES AS A CONFIRMATION OF THE BOOKING. PLEASE ACKNOWLEDGE RECEIPT OF THE ABOVE RESERVATION:

Confirmation No. :
Confirmed by : ________________________________ Date :
Company’s stamp/Signature :

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