



# Conference Schedule

## THURSDAY, 6<sup>th</sup> OCTOBER 2011

<b>8:30 – 9:10</b>	<b>Opening Ceremony</b>	<b>Golden Ball Room</b>
<b>8:30-8:35</b>	Introduction of Dr. Phung Duc Long- <i>Chairman of the Scientific Committee</i>	
<b>8:35-8:45</b>	Speech of Mr. Pham Viet Khoa - <i>Chairman of the Organizing Committee</i>	
<b>8:45-8:55</b>	Speech of Representative of Ministry of Construction of Socialist Republic of Vietnam	
<b>8:55-9:05</b>	Speech of Mr. Toshio Nagase- <i>Senior Representative of Vietnam Office of Japan International Cooperation Agency (JICA)</i>	
<b>9:10 – 9:25</b>	<b>Opening Lecture</b>	<b>Golden Ball Room</b>
	36 Years of Geotechnical Engineering Development in Vietnam Challenges and Opportunities <i>Prof. Dr. Nguyen Truong Tien</i> <i>Vietnam Society for Soil Mechanics and Geotechnical Engineering, Vietnam</i>	
<b>9:25 – 10:10</b>	<b>Keynote Lecture 1</b>	<b>Golden Ball Room</b>
	Soil Improvement by Preloading And Vertical Drainage <i>Emeritus Prof. Sven Hansbo</i> <i>Chalmers University of Technology (CTH), Gothenburg, Sweden.</i>	
<b>10:10 – 10:30</b>	<b>Coffee Break and Exhibition Visiting</b>	
<b>10:30 – 11:15</b>	<b>Keynote Lecture 2</b>	<b>Golden Ball Room</b>
	Characteristics of Liquefaction-Induced Damage in the 2011 Great East Japan Earthquake <i>Prof. Kenji Ishihara</i> <i>Research and Development Initiative, Chuo University, Tokyo, Japan</i>	
<b>11:15 – 12:00</b>	<b>Keynote Lecture 3</b>	<b>Golden Ball Room</b>
	Design of High-Rise Building Foundations <i>Emeritus Prof. Harry G. Poulos</i> <i>Coffey Geotechnics, Sydney, Australia</i>	
<b>12:00 – 13:00</b>	<b>Lunch Break (12:00 ~ 13:00)</b>	



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<b>13:00 – 15:30</b>	<b>S1 - Soft Soil Improvement and Reinforcement</b>	<b>Golden Ball Room</b>
	<b>Chairman:</b> Prof. Sven G. Hansbo (Sweden) <b>Co-Chairman:</b> Prof. Nguyen Truong Tien (Vietnam)	
<b>13:00-13:15</b>	Apparent value of $c_h$ determined from field behavior of two soft clay deposits in Southern Vietnam <i>K. Suzuki, C.O. Nguyen</i>	
<b>13:15-13:30</b>	Simulation vacuum preloading method by tri-axial apparatus <i>W. Teparaksa, T.D. Ngo, H. Tanaka</i>	
<b>13:30-13:45</b>	Application of vacuum consolidation for aratozawa irrigation reservoir construction <i>K. Tomoya, K. Takeya, K. Koichi, T. Nipon</i>	
<b>14:05-14:20</b>	Performance of vacuum consolidation for high embankment of expressway construction on an extremely soft ground <i>K. Toshiaki, K. Masatsugu, I. Motohiro, T. Nipon</i>	
<b>14:20-14:35</b>	Application examples of deep mixing method as aseismic measures <i>H. Kinoshita, A.T. Ngo, N. Shinkawa, H. Fukada</i>	
<b>14:35-14:50</b>	Tradition soil stabilization by lime and cement - A case study in Iran <i>A. Taheri, H. Taheri</i>	
<b>14:50-15:05</b>	Evaluation of the safety factor of damaged geogrid reinforced soil wall <i>H.G. Nguyen, J. Kuwano</i>	
<b>13:00 – 15:30</b>	<b>S4 - Environmental Geotecnics and Sustainable Development</b>	<b>Sentosa Room</b>
	<b>Chairman:</b> Dr. Hiroshi Yoshida (Japan) <b>Co-Chairman:</b> Assoc. Prof. Trinh Minh Thu (Vietnam)	
<b>13:00-13:15</b>	Environmental impact assessment for waste disposal in developing countries <i>S. Inazumi, H. Ohtsu, T. Isoda, K. Shishido</i>	
<b>13:15-13:30</b>	A case study of cement deep mixing method applied for waste disposal site <i>H.Taguchi, M.Oota, T.Saito, K.Nishida &amp; K.Shinjyo</i>	
<b>13:30-13:45</b>	HDPE geomembrane floating cover for anaerobic lagoons in Thailand <i>H. B. Ng</i>	
<b>14:05-14:20</b>	Geotechnical characterization of deep saline aquifers for CO <sub>2</sub> geological storage in the Bécancour region, Québec, Canada <i>N.T.D. Tran, E. Konstantinovskaya, R. Lefebvre, M. Malo, L. Massé</i>	



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## THURSDAY, 6<sup>th</sup> OCTOBER 2011

- 14:20-14:35** Probability-based PGA estimations using double-lognormal distribution: Example of the nuclear power plant in Taiwan  
*J.P. Wang, H. Taheri, T.C.T. Cheng*
- 14:35-14:50** New type of cut-off walls using SPSPs and WSMs in waste landfill sites  
*S. Inazumi, K. Kato, T. Wakatsuki, M. Kobayashi, K. Kojima*
- 14:50-15:05** Development of 'Nation-wide Electronic Geotechnical Database Systems' in Japan  
*H. Todo, M. Mimura, S. Yasuda, K. Yamamoto*

### 15:30 – 16:00 Coffee Break and Exhibition Visiting

### 16:00 – 17:30 S1 - Soft Soil Improvement and Reinforcement

Golden Ball Room

- 16:00-16:15** Basic study for a new design concept of ground improve method evaluating constraint effect by the stabilized bodies  
*H. Miki, Y. Okochi, M. Makino*
- 16:15-16:30** Cement-treated granulate soil - A new approach for reuse of dredged soils as construction material  
*H.D. Phan, K. Hayano*
- 16:30-16:45** Geocell mattress for heavy duty working platform over soft soil  
*R. Ong, W.K. Song, N.M. Tran, X.T. Pham*
- 16:45-17:00** Seismic stability of fully saturated reinforced soil walls  
*J. Kuwano, J. Izawa, H.G. Nguyen*

### 16:00 – 17:30 S5: Modeling, Design and Monitoring

Sentosa Room

**Chairman:** Prof. Pieter A. Vermeer (Netherlands)

**Co-Chairman:** Dr. Ing Le Quang Hanh (Vietnam)

- 16:00-16:15** A 3D finite element calculation of a raft foundation on rein-forced ground  
*K.V. Nguyen, P. Chalivat, A. Guilloux*
- 16:15-16:30** A study of seismic behavior of shallow foundations during major earthquakes and artificial symmetrical shakes based on a 3 dimensional effective stress analysis  
*A.C.W. Lu, B.P.K. Wu, C.B.Y. Chang, D.S.Y. Huang*
- 16:30-16:45** Numerical analysis on the behavior of energy pile using coil type heat exchanger  
*S.R. Lee, S. Park, C.S. Yoon*
- 16:45-17:00** Numerical studies of horizontal and vertical undrained bearing capacities of skirted foundation in clay  
*C.H. Le, S. Kim*



# Conference Schedule

## FRIDAY, 7<sup>th</sup> OCTOBER 2011

**8:00 – 8:45**

### **Keynote Lecture 4**

**Golden Ball Room**

New Horizons in Numerical Analysis for Geotechnical Engineering  
*Prof. Pieter Vermeer*  
*Deltares, The Netherlands & Stuttgart University, Germany*

**8:45 – 9:30**

### **Keynote Lecture 5**

**Golden Ball Room**

Current Facts Concerning Efforts to Improve the Global Environment and Commitments by the Construction Industry in Japan  
*Prof. H. Yoshida*  
*Executive vice president, Chemical Grouting Co., Ltd, Tokyo Japan*

**9:30 – 10:00**

### **Coffee Break and Exhibition Visiting**

**10:00 – 11:00**

### **Session 1 - Soft Soil Improvement and Reinforcement**

**Golden Ball Room**

**10:00-10:15**

Current state of the ground anchor technology in Japan and application to the seismic reinforcement construction  
*K. Takeya*

**10:15-10:30**

Service life and behavior over time of reinforced earth walls as effect of metal corrosion  
*T.L. Chau, A. Corfdir, E. Bourgeois*

**10:30-10:45**

The effectiveness of floating-type ground improvement as a measure to stabilize embankments  
*H. Hashimoto, S. Nishimoto, H. Hayashi*

**10:00 – 11:00**

### **Session 5: Modeling, Design and Monitoring**

**Sentosa Room**

**10:00-10:15**

Investigation of the effects of micropiles geometric design parameters on their performance under vertical static loads  
*T. Akhlaghi, A. Rasai*

**10:15-10:30**

Construction management on soft ground by using data based monitoring system  
*N. Kitayama, T. Akasaki*

**10:30-10:45**

Evidence of stress path dependence in unsaturated soil behavior  
*Q.H. Pham, D.G. Fredlund*



# Conference Schedule

## FRIDAY, 7<sup>th</sup> OCTOBER 2011

<b>11:00– 12:00</b>	<b>Session 6 - Case History</b>	<b>Golden Ball Room</b>
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**Chairman:** Prof. Kenji Ishihara (Japan)

**Co-Chairman:** Dr. Pham Quang Hung (Vietnam)

**11:00-11:15** Malpasset arch dam failure; a starter for civil rock mechanics  
*P. Duffaut*

**11:15-11:30** Pile foundation work for Keangnam Hanoi Landmark Tower  
*E.C. Shin , C.S. Oh*

**11:30-11:45** Embankment Surface Protection for Dam Wall Using Maccaferri Grout Mattress -  
A Case Study  
*S. Ramasamy, D. Mariano, H.G. Nguyen*

<b>11:00 – 12:00</b>	<b>Session 2 - Foundation Engineering</b>	<b>Sentosa Room</b>
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**Chairman:** Prof. Harry Poulos (Australia)

**Co-Chairman:** Dr. Phung Duc Long (Vietnam)

**11:00-11:15** Behaviour of CPRF on multi-layered semi-soft soil of Lagos  
*R. Katzenbach, H. F. Gebregziabher*

**11:15-11:30** Piled raft - A new foundation design philosophy for high rises  
*D.L. Phung*

**11:30-11:45** Piled rafts on soft ground in Japan  
*K. Yamashita, J. Hamada, T. Yamada*

<b>12:00 – 13:00</b>	<b>Lunch Break (12:00 ~ 13:00)</b>
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<b>13:00 – 14:00</b>	<b>Session 6 - Case History</b>	<b>Golden Ball Room</b>
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**13:00-13:15** Failures of highway embankments along the Hau riverbanks: Causes and remedial solutions  
*N.H.H. Tran, V.X. Le*

**13:15-13:30** Low cost composite technology for earth slope protection – Case studies in Japan and Bangladesh  
*Md. Toriqul Islam, Md. Zakaria Hossain, M. Ishida*

**13:30-13:45** A study of failure mechanism of deep landslide occurring in Hsiaolin Village due to Typhoon Morakot  
*A.C.W. Lu, B.J.H. Wu, C.C.L. Shieh, D.S.Y. Huang*





# Conference Schedule

## FRIDAY, 7<sup>th</sup> OCTOBER 2011

<b>14:00 -15:00</b>	<b>Session 3: Tunneling an Underground Spaces</b>	<b>Golden Ball Room</b>
	<b>Chairman:</b> Dr. Alain Guiloux (France) <b>Co-Chairman:</b> Dr. Vo Trong Hung (Vietnam)	
<b>14:00-14:15</b>	Design of multi-anchored walls for deep excavations <i>D.L. Phung</i>	
<b>14:15-14:30</b>	Challenges of deep basement excavation works in Vietnam <i>J.W.C Sze, J. C.Y Yau</i>	
<b>14:30-14:45</b>	Deep basement construction of Bank of Thailand along Chao Phraya river close to Tewavej Palace <i>W. Teparaksa</i>	
<b>13:00 – 15:00</b>	<b>Session 2 - Foundation Engineering</b>	<b>Sentosa Room</b>
<b>13:00-13:15</b>	Capacity versus deformation analysis for design of footings and piled foundations <i>B.H. Fellenius</i>	
<b>13:15-13:30</b>	Comparison of Bearing Capacity Distribution of Bored Pile from Static Loading Test and SPT-Based in Vietnam <i>X.H. Ta, Q.H. Le, H.G. Nguyen</i>	
<b>13:30-13:45</b>	Construction of pile foundations operated under dynamic loads with strengthening ground base using high pressure moving injected cement-sand mixtures <i>L.V. Nuzhdin, M. L. Nuzhdin</i>	
<b>14:00-14:15</b>	Behavior of pile-sheet pile combined foundation subjected to horizontal cyclic loading <i>Y. Ishihama, J. Takemura, S. Taenaka, R. Kanno, M. Tsujii</i>	
<b>14:15-14:30</b>	Japanese design code of bridge foundations taking deformation in account <i>Y. Shioi</i>	
<b>14:30-14:45</b>	A wave propagation analysis in an open-ended pipe pile using finite difference method with matrix form <i>L.T. Phan, T. Matsumoto, S. Kobayashi</i>	
<b>15:00 – 15:25</b>	<b>Coffee Break and Exhibition Visiting</b>	



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## FRIDAY, 7<sup>th</sup> OCTOBER 2011

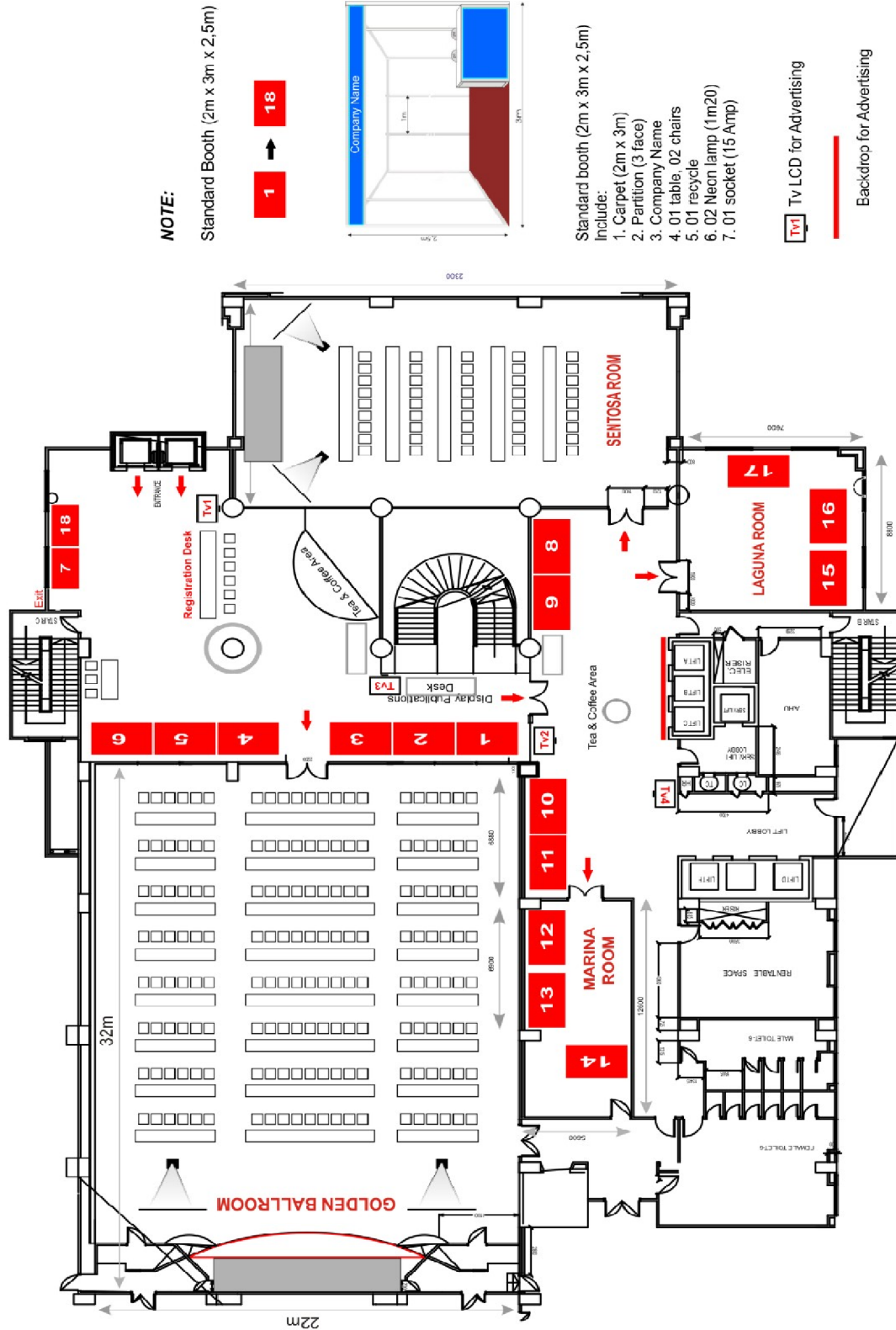
<b>15:25 – 16:45</b>	<b>Session 3: Tunneling an Underground Spaces</b>	<b>Golden Ball Room</b>
<b>15:25-15:40</b>	Sheeting wall analysis by the method of dependent pressures <i>V. Vaneckova, J. Laurin, J. Pruska</i>	
<b>15:40-15:55</b>	Tie back lateral support system by directional drill in deep excavation, underpinning and lateral support for monuments and trees <i>C. Cheung, A. Lai, P.L. Leung</i>	
<b>15:55-16:10</b>	Experiences from engineering geological investigation of headrace tunnel on sedimentary rock Xekaman3 hydropower project - Lao PDR <i>S.T. Nguyen, D.M. Dao, D.Q. Hoang</i>	
<b>16:10- 16:25</b>	Plastic underground storage and infiltration facilities for rainwater: A new technical guideline in Japan <i>H. Okui, M. Honsho, M. Imbe</i>	
<b>15:25 – 16:45</b>	<b>Session 2 - Foundation Engineering</b>	<b>Sentosa Room</b>
<b>15:25-15:40</b>	Application of Near-Surface Geophysics in Geotechnical Investigation and Characterization of Soft Clays <i>H.G. Pham</i>	
<b>15:40-15:55</b>	Introduction of bi-layer footing foundation for multistorey RCC building in weak subsoil of lower Himalayan region in India - A case study <i>G.K. Bayan</i>	
<b>15:55-16:10</b>	Application of a new type reinforced soil wall <i>T. Hara, S. Tsuji, M. Yoshida, S. Ito, K. Sawada</i>	
<b>16:10- 16:25</b>	Long-term compression characteristics of go composite Soil with Crumb Rubber (GSR) <i>T.H. Do, V. Phan</i>	
<b>16:40 - 17:25</b>	<b>Keynote Lecture 6</b>	<b>Golden Ball Room</b>
	Tunneling in soft ground and urban environment <i>Prof. A. Guilloux</i> <i>Terrasol, Paris, France.</i>	
<b>17:25 – 18:00</b>	<b>Closing ceremony</b>	<b>Golden Ball Room</b>
	Prof. Dr. Nguyen Truong Tien <i>Vietnam Society for Soil Mechanics and Geotechnical Engineering, Vietnam</i>	
<b>18:30 – 21:00</b>	<b>Gala Dinner</b>	



# INTERNATIONAL CONFERENCE ON GEOTECHNICS FOR SUSTAINABLE DEVELOPMENT

**6-7**  
October 2011  
Hanoi, Vietnam

## GEOTEC Hanoi Conference 2011 - Exhibition Floorplan (Time: 06-07 October 2011, Venue: 3Floor, Fortuna Hanoi Hotel)



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