



## Technical Program

### 13<sup>th</sup> September 2017

17:30-19:00 AGSSEA Council meeting (AIT Center Room:B225)  
19:00-20:00 AGSSEA Dinner

### 14<sup>th</sup> September 2017

8:00- 9:00: **Registration**

9:00 - 9:35: **Opening ceremony** (MC: Dr. Apiniti Jotisankasa)

**Opening ceremony: Speakers:**

- Prof. Roger Frank (President ISSMGE)
- Prof. Worsak Kanoknukulchai (AIT President)
- Prof. Ikuo Towhata, VP, ISSMGE
- Dr. Z. C. Moh (Founder-President SEAGS)
- Dr. Noppadol Phienwej (President SEAGS)
- Prof. San Shyan Lin (President AGSSEA)
- Dr. Suttisak Soralump (President TGS)

9:35-9:50: **Coffee break – Exhibition opening**

9:50-12:00: **Commemoration Session "How it all started: Our contributions in the past 50 years and our visions for the future"** (MC: Dr. Geoff Chao)

- Dr. Z. C. Moh: FounderPresident: Vision-Mission-Accomplishment
- Dr. T.A. Ooi (Malaysia): Developments in Malaysia
- Prof. K.Y.Yong (Singapore): 50 years of Geotechnical Challenges in Singapore Infrastructure Development
- Prof. Charles Ng-Ir WK Pun (Hong Kong): Early days of Geotechnics in HK including GEO
- Dr. Chin-Prof San Shyan Lin (Taiwan): "From 70's to-date: brief on geotechnical engineering development in Taiwan".
- Prof. A.S. Balasubramaniam-Prof. D.T. Bergado (AIT): SEAGS from 1976 to-date
- Dr. Noppadol Phienwej (SEAGS): SEAGS at Present
- Dr. Suttisak Soralump (Thailand): Geotechnical Development in Thailand – Contribution of SEAGS
- Prof. I. Towhata (Japan): Future Task of Geotechnics Discipline

- *SEAGS Special Recognition Award*

12:00 – 13:00: **Lunch**

13:00–15:15: **Session I: Achievements, Looking Ahead & Case histories** (Chair: Prof. San Shyan Lin & Prof. Panich Voottipruex)

**C. W.W. Ng, J. L. Coe & A. Gunawan:** State-of-the-Art Research in Geo-energy and Geo environmental Engineering: Energy Pile and Earthen Capillary Landfill Cover System

**R. N. Hwang and L-W Wong:** Effects of Preloading of Struts on Retaining Structures in Deep Excavations

**T-L Gouw:** Proposed Design Guideline of Dynamic Compaction for Practicing Engineers

**Warakorn Mairaing and Bunpoat Kunsuwan:** Vegetation Effects on Landslides in Thailand

**Chu Jian:** Recent developments in land reclamation and related soil improvement methods

**Paulus Rahardjo:** Selected Case Histories on Man Made Slope Failures in Indonesia

**15:15- 15:35: Coffee Break**

15:35 – 17:45: **Session 2A: Foundations, Tunnelling & Soil Movements** (Chairperson: Prof. P. Rahardjo & Dr. Sompote Youwai)

**S-S Lin, C-K Hsueh, C-J Kuo, and Y-K Lin:** Finite Element Analysis to Characterize the Lateral Behavior of a Capped Pile Group

**A. Zhussupbekov, A. R.Omarov, A.Yergen, K.Borgekova and G. Tleulnova:** Piling Designing, Installation and Testing on Problematical Soil Ground of Kazakhstan

**D.E.L. Ong:** Detrimental Effects of Lateral Soil Movements on Pile Behaviour

**T, Hosoi, W. Koji and M. Shinya:** Challenging Technologies of Diaphragm Wall and Bored Pile

**V. Balakumar, M. Huang, E. Oh and A. S. Balasubramaniam:** A Critical and Comparative Study On the 2D and 3D Analyses of Raft and Piled Raft Foundations

**18:00-20:00: Banquet**

**15<sup>th</sup> September 2017**

**8:00-10:20 Session 2B: Foundations, Tunnelling & Soil Movements** (Chairperson Mr. S.C. Chian & Dr. Suriyon Prempramote)

**L. Ge:** Liquefaction-Induced Settlement of Structures on Shallow Foundation

**J. H. Yin and W.-Q.Feng:** Validation of a New Simplified Hypothesis B Method for Calculating Consolidation Settlement of Clayey Soils Exhibiting Creep

**C.W. Boon and L. H.Ooi:** Longitudinal and transverse interactions between stacked parallel tunnels constructed using shield tunnelling in residual soil

**M. Sugimoto, H Tanaka, N T Huynh, S Chaiyaput, L.G. Lam, and J. Chen** Study on Shield Operation Method in Soft Ground by Shield Simulation

**L.J. Endicott:** Innovations in tunnelling:

**Suched Likitlersuang:** Strength and Stiffness Parameters of Bangkok Clays for Finite Element Analysis

**10:20-10:40: Coffee Break**

10:40-12:00: **Session 3A: Ground improvement** (Chairperson: Prof. M. Sugimoto & Prof. Suched Likitlersuang)

**D. T. Bergado, P. V. Long, P. Jamsawang, Na Lampun, C, and A.S. Balasubramaniam:** On Prefabricated Vertical Drain (PVD) and Deep Cement Mixing (DCM)/Stiffened DCM (SDCM) Techniques for Soft Ground Improvement

**C-W. Hsieh:** Weaving pattern and lateral confinement effects on the engineering behavior of hexagonal wire mesh panels

**S.C. Chian:** Optimising Cement Dosage in Ground Improvement and Early Quality Control Schemes

**K- J. Shou, J.Yen, and C-Y Hsieh:** Trenchless Excavations for Underground Pipelines in Difficult Geology

10:00-12:00 SEAGS GC Meeting

12:00-13:00: Lunch

13:00-15:00: **Session 3B: Ground improvement: continued** (Chairperson: Prof. Lin Der Guey & Dr. Nipon Teerachaikulpanich)

**P. Pinto:** Leziria Tagus Bridge - Ground Challenges

**S.S. Liew:** Common Blind spots in Ground Investigation, Design, Construction, Performance Monitoring and Feedbacks in Geotechnical Engineering

**K. Yasuhara, Yang, S. S., Horikawa, I. and Yamane, H.:** Settlement of river dykes and their adjacent residences on soft clay deposits after the Tohoku-Pacific Ocean Earthquake in 2011

**T. Al-Hussaini:** Seismic Hazard Assessment Procedures - Reflection on Bangladesh

**Suksun Horpibulsuk:** Failure and Remedial Approach of a Riverbank Protection Structure

**Suraj De Silva and Henry Wang** Reclamation for Al Raha Beach Development, Abu Dhabi, UAE

15:00-15:20: Coffee Break

15:20 – 17:30: **Session 4: Slope Stability, Excavations & Landslides** (Chairperson: Prof. Yasuhara & Dr. Pornpot Tanseng)

**H-J. Liao, S-Ho Cheng, and C-C Chen:** Anchors of Anchored Slopes in Taiwan

**D.G. Lin:** Evaluating the Efficiency of Subsurface Drainage for Large Landslides in Taiwan

**G. Chao:** Evaluation of Factors Influencing Expansive Soil Embankment Slope Failure

**F. Ahmad, A. S. Yahaya, M. H. Halim, and M. Azmi:** The Community Slope Safe Awareness Program at Bukit Antarabangsa, Kuala Lumpur

**T. Awwad, S. Al Kodsi and L. Awwad Kaushik Mukherjee :** Formulating Practical Equations by Numerical Analysis Parametric Study to Determine the Location of Neutral Plane

**Kaushik Mukherjee:** A Standardised Detailed Reliability Based Methodology in Determining Risk on Stationary Platforms due to Shallow Gas Geohazard

17:30-17:45 **Closing Ceremony** (MC: Ms. Najiha)