

# Technical Program (26<sup>th</sup> July 2017)

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

8:00-9:00: Registration

9:00-9:30: Opening ceremony

- **Prof. R. Frank** (President ISSMGE)
- **Prof. Worsak Kanok-nukulchai** (AIT President)
- **Prof. I. Towhata** (Vice President, ISSMGE)
- **Dr. Z. C. Moh** (Founder-President SEAGS)
- **Dr. Noppadol Phienwej** (President SEAGS)
- **Prof. San Shyan Lin** (President AGSSEA)
- **Dr. Suttisak Soralump** (President TGS)

9:30-9:50: Coffee Break - Exhibition Opening

9:50-12:00: Commemoration Session "How it all started: Our Contributions in the Past 50 Years and Visions for the Future"

- **Dr. Z. C. Moh**: Founder President: 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. W. K. Pun** (Hong Kong): Early Days of Geotechnics in HK Including GEO
- **Dr. J. K. 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

12:00-13:00: Lunch

13:00-15:15: *Session 1: Achievements, Looking Ahead and Case Histories*

- **C.W.W. Ng, J. L. Coo and 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 Bunpoa Kunsuwan**: Vegetation Effects on Landslides in Thailand
- **Chu Jian**: Recent Developments in Land Reclamation and Related Soil Improvement Methods
- **Paulus Rahadjo**: Selected Case Histories on Man Made Slope Failures in Indonesia

15:15-15:35: Coffee Break

15:35-17:45: *Session 2A: Piled Foundations*

- **S. S. Lin, C.K. Hsieh, C. J. Kuo, and Y. K. Lin**: Finite Element Analysis to Characterize the Lateral Behavior of a Capped Pile Group
- **Zh. A. Zhussupbekov, A. R.Omarov, A. Yergen, K. Borgekova and G.**

**Teulenova:** Piling Designing, Installation and Testing on Problematical Soil 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**

**8:30-10:20      *Session 2B: Foundations and Tunnelling***

- **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. Chaipayut, 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 3: Ground improvement***

- **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

**12:00-13:00:    Lunch**

**13:00-15:00:    *Session 3 Ground improvement: continued***

- **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 and Landslides***

- **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 Kodsí and L. Awwad:** 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**