4th Japan-Korea Geotechnical Engineering Workshop
Geotechnics for Human Security
July 6-7, Kobe, Japan

Japanese Geotechnical Society and Korean Geotechnical Society

Program Overview (tentative)

July 5 Tuesday
19:00 – 21:00 Welcome Reception

July 6 Wednesday
9:00 – 9:15 Opening
9:15 – 10:15 Session A
10:30 – 12:00 Session B
13:00 – 15:00 Session C
15:15 – 17:30 Session D
at Room 401, Kobe International Conference Center (http://kobe-cc.jp/english/)

18:00 – 20:00 Reception of JGS Annual Conference
at Room "Kairaku," B1F, Kobe Portpia Hotel (http://www.portopia.co.jp/en/location/)

July 7 Thursday
8:15 – 18:00 Technical Visit
Technical Program on July 6 Wednesday (tentative)
(Room 401, Kobe International Conference Center)

Fifteen (15) minutes will be allocated to each presentation including discussion.

9:00 – 9:15  Opening
Greetings by representatives from JGS, KGS, and the Organizing Committee

9:15 – 10:15  Session A - Earthquake and dynamic issues
Chairperson: Dr Yoichi Watabe
Some case histories of liquefaction and slope instability caused by the 2011 off the Pacific coast of Tohoku Earthquake
  Junichi Koseki, Yukika Miyashita, Jianliang Deng and Hiroyuki Araki
Seismic behaviors of rockfill dams through centrifuge modelling
  Dongsoo Kim, Mukwang Kim, Seihyun Lee and Yunwook Choo
Backfill compaction control based on laboratory stress-strain tests
  Fumio Tatsuoka
Dynamic p-y curves for dry sand by dynamic centrifuge tests
  Mintaek Yoo, Jintae Han, Jungin Choi and Myoungmo Kim

10:30 – 12:00  Session B - Ground characterization, modification, and bearing capacity
Chairperson: Prof. Eunchul Shin
Development of new asymmetric anchor plate to mitigate smear effect induced by PVD installation via centrifuge model tests
  Yunwook Choo, Jaechyun Kim, Hyunil Park and Dongsoo Kim
Failure of sands due to water-inflow and soil-drainage cycle with different inflow rate through a defective underground pipe
  Toshifumi Mukunoki, Naoko Kumano and Jun Otani
Behavior of monopile foundations under static and cyclic loads
  Yongmin Kim, Sangseom Jeong and Youngho Kim
Bearing capacity of strip footing over a circular underground openings in cohesive-frictional soil
  Kentaro Yamamoto, Andrei V. Lyamin, Daniel W. Wilson, Andrew J. Abbo and Scott W. Sloan
Effect of biomineralization on strength of cemented sand
  Sung-Sik Park
Application of geostatistical method for liquefaction potential mapping
  Rama Mohan Pokhrel, Jiro Kuwano and Shinya Tachibana

12:00 – 13:00  Lunch (at Casteria 5F, Quality Hotel Kobe)

13:00 – 15:00  Session C - Soil and rock fills, slopes, and excavations
Chairperson: Prof. Sangseom Jeong
Combined monitoring of water content and displacement for slope instability
  Taro Uchimura, Daiken Suzuki and Seo Hongkwan
Numerical investigation on effect of internal drainage on performance of reinforced earth wall during rainfall
  Chungsik Yoo and Hoon-min Jeon
Comparison between splitting tensile strength test and uniaxial tensile test on Tage stone
  Yasuhisa Aono, Kazuo Tani and Tetsuji Okada
A case study of long-term settlement estimation of dynamic compacted high rock embankment with construction path
  Kyungtae Bae, Taehoon Kim, Hyungskuk Kim, Jaeyeol Kim, Kangkyu Kim and Woojin Lee
Statistical analysis of strength properties by rock shear tests based on rock mass classification systems of JGS
Yota Togashi and Kazuo Tani

New shallow tunnel construction method in soil by using continuous pile wall
Jaeseung Lim, Jaeho Choi, Dongin Park, Hyun Cho and Kihwan Lee

Centrifuge testing of reinforcement method for embankments on liquefiable ground
Makiko Misumi, Tadafumi Fujiwara, Akira Tateishi and Tomoyuki Aoki

Risk evaluation and reliability-based design of earth-fill dams for overflow due to heavy rains
Shin-ichi Nishimura and Shunsuke Mori

15:15 – 17:30  Session D - Environmental issues

Chairperson: Prof. Junichi Koseki

2-D axi-symmetric non-linear finite strain consolidation model considering self-weight consolidation of dredged soil
Hangseok Choi, Taehoon Kwak, Dongseop Lee and Jeehee Lim

Environmental influence in low-landfilling using waste soil from construction site
Eunchul Shin, Jeongku Kang and Youngjin Park

Measurement of swelling pressure using relative humidity controlling system for compacted bentonite
Tomoyoshi Nishimura and Junichi Koseki

The history of coastal reclamation in Incheon
Khi woong Kim, Eun chul Shin and Yong ha Kim

Engineering properties of the mixture of steel slag with fine-grained soil in use for fill material
Jinsuk Hur, Jemin Baek, Minsu Jung and Satoru Shibuya

In-situ investigation of geo-environment in arid land which liquorice grows wildly and a consideration for added value greening
Zentaro Furukawa, Kiyoshi Omine, Noriyuki Yasufuku, Taizo Kobayashi, Haruka Kiyotomo and Atsushi Shinkai

Influence of magnitudes of negative dewatering pressures on the dewatering behavior of dredged slurry
Jun Tong, Noriyuki Yasufuku, Kiyoshi Omine and Taizo Kobayashi

Experimental study on hydraulic resistance of sea ground considering direction change of the tidal current
Young Sang Kim and Kyoungso Kang

Sedimentary stratigraphy of intertidal flats: Sandflats, mudflats, and subtropical intertidal flats
Yoichi Watabe, Shinji Sassa and Soonbo Yang

17:30 -  Closing
Technical Visit on July 7 Thursday
(Tentative schedule)

Start at 8:15
San-no-miya 三宮

9:15 – 11:00
Miki Sougou Bousai Park
Regional Park with emergency function during disaster.

12:00 – 13:00
Hokudan Earthquake memorial park
You can observe Nojima fault which appeared by the Great Hanshi earthquake.

13:15 – 15:00
Akashi Kaikyo Bridge
The longest suspension bridge in the world
Its length is 3,911m
You can visit anchorage, walk on grid deck and climb up to the tower top