

The 6th Japan-Korea Geotechnical Workshop

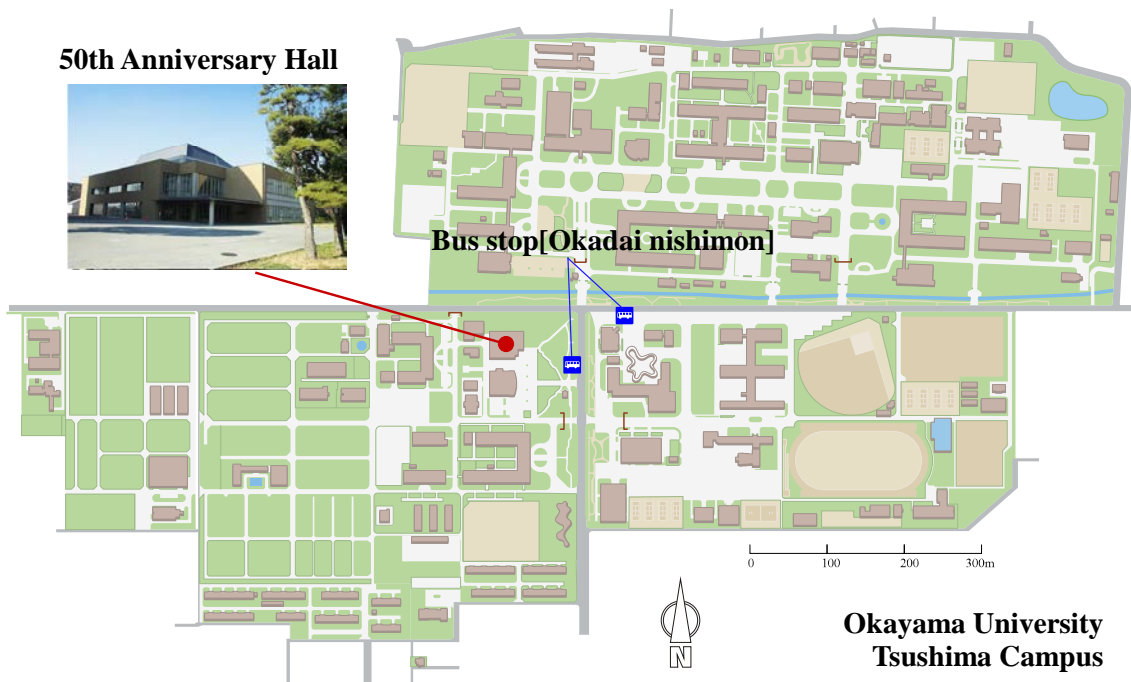
Organized by

Japanese Geotechnical Society (JGS) & Korean Geotechnical Society (KGS)

Date: September 12 (Monday), 2016

Venue: 50th Anniversary Hall, Tsushima Campus, Okayama University

50th Anniversary Hall



**Okayama University
Tsushima Campus**

By taxi:

About 7 minutes from Okayama Station.

By bus:

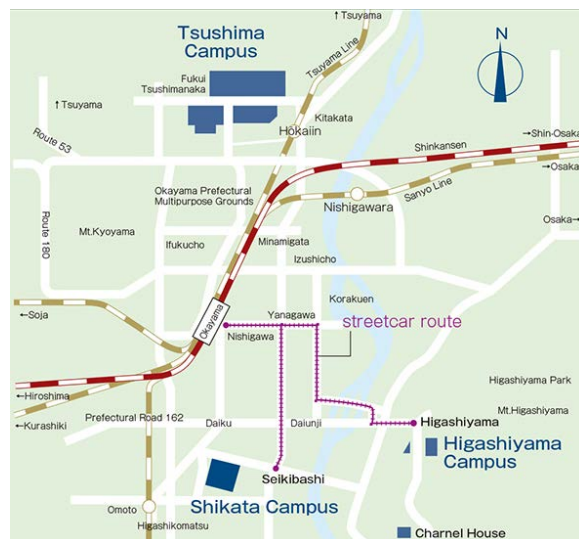
At JR Okayama Station West Exit Bus Terminal, take Okaden Bus for "Okayama rika daigaku" or "Myozenji" and get off at "Okadai nishimon".

By shuttle bus:

Shuttle bus is available from Okayama Station to Okayama University (See next page).

By foot:

About 30 minutes from the Okayama station west exit.



Shuttle bus from Okayama Station to Okayama University on Sept. 12 (Mon):



The shuttle bus departs from the west side of Okayama Station at 8:45 and arrives at Okayama University around 9:00. The bus is indicated by "Japan-Korea Geotechnical Workshop" on its head. If you miss the shuttle bus, you can take Okaden Bus.

General program:

Time	Room A & B	
Opening ceremony		
09:30 - 10:00	Akira MURAKAMI (President of JGS)	
	<i>Opening address and overview of activities of geotechnical professionals in Japan</i>	
	Dong Soo KIM (Vice President of KGS)	
	<i>Opening address and overview of activities of geotechnical professionals in Korea</i>	
10:00 - 10:15	<i>Break</i>	
	Room A	Room B
10:15 - 12:00	A1	B1
	Dynamic behavior	Investigation and laboratory testing
12:00 - 13:00	<i>Lunch</i>	
13:00 - 14:45	A2	B2
	Failure and strength of geomaterial	Ground improvement
14:45 - 15:15	<i>Break</i>	
15:15 - 17:00	A3	B3
	Underground structures	Environmental issues

18:00 - 20:00 **Reception** (Voluntary)

Restaurant name: AGURA dining

Address: 8-15 Nishiki-machi, Kita-ku, Okayama 700-0902 (near Okayama Station)

A shuttle bus to the restaurant is available, which departs from the 50th Anniversary Hall at 17:30.

A1 **Dynamic behavior** Time: 10:15 - 12:00 Chair: Jaehyun PARK

Case studies of road embankments with and without damage by the 2011 off the Pacific coast of Tohoku earthquake ([j24](#))

Enomoto T.

Liquefaction hazard map in Korean disaster monitoring system ([k12](#))

Choi J-S., Hwang C-H. & Park J-P

Seismic performance of multi-anchor wall with double-wall facing ([j03](#))

Kobayashi M., Miura K., Konami T., Hayashi T. & Suzuki K.

Effectiveness of drainage pipe to improve seismic stability of multi-anchor wall ([j10](#))

Sato H., Kobayashi M., Miura K., Konami T. & Hayashi T.

On the influence of initial static shear on large deformation behavior of very loose Toyoura sand in undrained cyclic torsional shear tests ([j27](#))

Umar M., Chiaro G. & Kiyota T.

Numerical simulation of blast induced vibration propagation ([k08](#))

Park D. & Ahn J-K.

Seismic behavior and numerical simulation of a small-sized earth-fill with bentonite sheet observed in shaking table test ([j30](#))

Jeong K-B., Shibuya S., Kataoka S., Baek J-M., Kawabata T. & Sawada Y.

B1 **Investigation and laboratory tests** Time: 10:15 - 12:00 Chair: Takashi KIYOTA

Shear deformation in unsaturated slope models due to wetting with various densities, inclination and overburden pressures ([j13](#))

Withanage K.R., Uchimura T. & Lin W.

Direct and indirect observations of local deformation properties of saturated sand specimens in undrained cyclic triaxial tests ([j01](#))

Koseki J., Hoshino R., Miyashita Y. & Sato T.

Cyclic triaxial test for an unsaturated soil with measurement of hydraulic conductivity ([j06](#))

Nishimura T. & Iwasaki K.

A performance evaluation of geophysical methods for detecting underground cavity around sewer ([k03](#))

Kang J., Park D., Kim J., Choi C. & Chung M.

Assessment of deformation during consolidation using digital image analysis ([k07](#))

Kim J., Cho W. & Chung C-K.

Effect of shear pin arrangement in undercut slope model using pencil leads ([j23](#))

Fang K., Minamide K., Pipatpongsa T., Kitaoka T. & Ohtsu H.

A2 Failure and strength of geomaterial Time: 13:00 - 14:45 Chair: Yuji TAKESHITA

Effect of fine grain content on unsaturated shear strength of embankment material ([j02](#))

Kim B., Kato S., Park S-W & Takeshita Y.

Model test for the observation of cavity formation in sandy ground - with reference to ground water level and relative density - ([k02](#))

Kim J., Choi C., Kang J., Baek W. & Chung M.

Stability monitoring of soil slope in wetting and failure process using elastic wave velocity ([j07](#))

Chen Y., Uchimura T., Tao S. & Xie J.

Centrifuge model tests on installation of suction caissons in sand ([k05](#))

Kim D-S., Lee S-T. & Kim J-H.

Stress distribution in elastic embankment using isogeometric analysis under Bézier extraction ([j17](#))

Nguyen T., Pipatpongsa T., Kitaoka T. & Ohtsu H.

Numerical analysis of backward erosion by soil-water interface tracking ([j31](#))

Fujisawa K., Murakami A. & Sakai K.

B2 Ground improvement Time: 13:00 - 14:45 Chair: Sangseom JEONG

Stability of geotextile-reinforced coastal dykes against overflowing tsunami ([j18](#))

Kobayashi T., Fukatsu K., Kikuchi Y., Hyodo T., Nihei Y., Kurakami Y. & Tatsuoka F.

How geo-synthetic reinforcement supports piled embankment: a numerical approach ([k09](#))

Jung Y-H. & Lee T.

Examining efficient assisting geotechnology for permeation grouting of ultra microfine cement for soil liquefaction countermeasure ([j04](#))

Wang W., Hashimoto K., Hyodo T., Tsukamoto Y., Oji S., Nishihara S. & Kanazawa T.

Reduction of stress transferring through arching-effect inducing foundation of honey-cell tube ([k04](#))

Kim K. & Kim Y.U.

Study on subjects and applicability for mud improvement due to mixing with paper sludge ash ([j19](#))

Mochizuki Y.

Effect of spacing of transverse members on pullout resistance of a square-shaped geocell embedded in sandy and gravelly backfill materials ([j22](#))

Haussner C., Kiyota T. & Xu Z.

A3 **Underground structures** Time: 15:15 - 17:00 Chair: Young Uk KIM

Prediction of long-term settlement and accurate analysis of horizontal displacement based on model test results ([j08](#))

Shibata T., Nishimura S. & Shuku T.

Analysis of skin friction in prebored and precast piles ([k11](#))

Jeong S., Jung G., Kim D. & Park J.

A consideration on some reinforcing effects of small diameter steel pipes with blades on stabilization of cover soil on embankment slope ([j05](#))

Sawaishi M., Wada M. & Takahashi A.

Mechanical behavior of three-hinge precast arch culvert in construction process through model experiment ([j25](#))

Sawamura Y., Ishihara H., Kishida K. & Kimura M.

New hydro-mechanical tunnel excavation method using an abrasive waterjet system ([k06](#))

Cho G-C., Joo G-W., Oh T-M. & Hong E-S

The effectiveness of thickened wall at the pile base of open-ended piles in increasing soil plugging ([j29](#))

Kumara J.J., Kikuchi Y. & Kurashina T.

B3 **Environmental issues** Time: 15:15 - 17:00 Chair: Satoru SHIBUYA

Experimental investigation of water supply pipeline behavior in frozen soil ([k01](#))

Shin E., Gong Y., Ryu B. & Kang J.

Estimation of water - LNAPL transfer with different granular materials using X-ray CT image analysis ([j11](#))

Shiota E., Mukunoki T. & Tinet A-J.

Particle size effects of contaminated gravel sand on the leaching of inorganic constituents in column percolation tests ([j14](#))

Inui T., Takeo M., Takai A. & Katsumi T.

Review of offshore monopile design for wind turbine towers ([k10](#))

Kim D., Choo Y.W., Park J.H. & Kwak K.

Study on adsorption ability of hydroxyapatite for strontium in solutions ([j26](#))

Shibata K., Yoshida H., Matsumoto N. & Suenaga Y.

Cement mix proportion for treated soils recycled from a cement treated soil ([j16](#))

Watabe Y., Kaneko T. & Watanabe Y.

Technical tour:

Date: September 11 (Sun), 2016

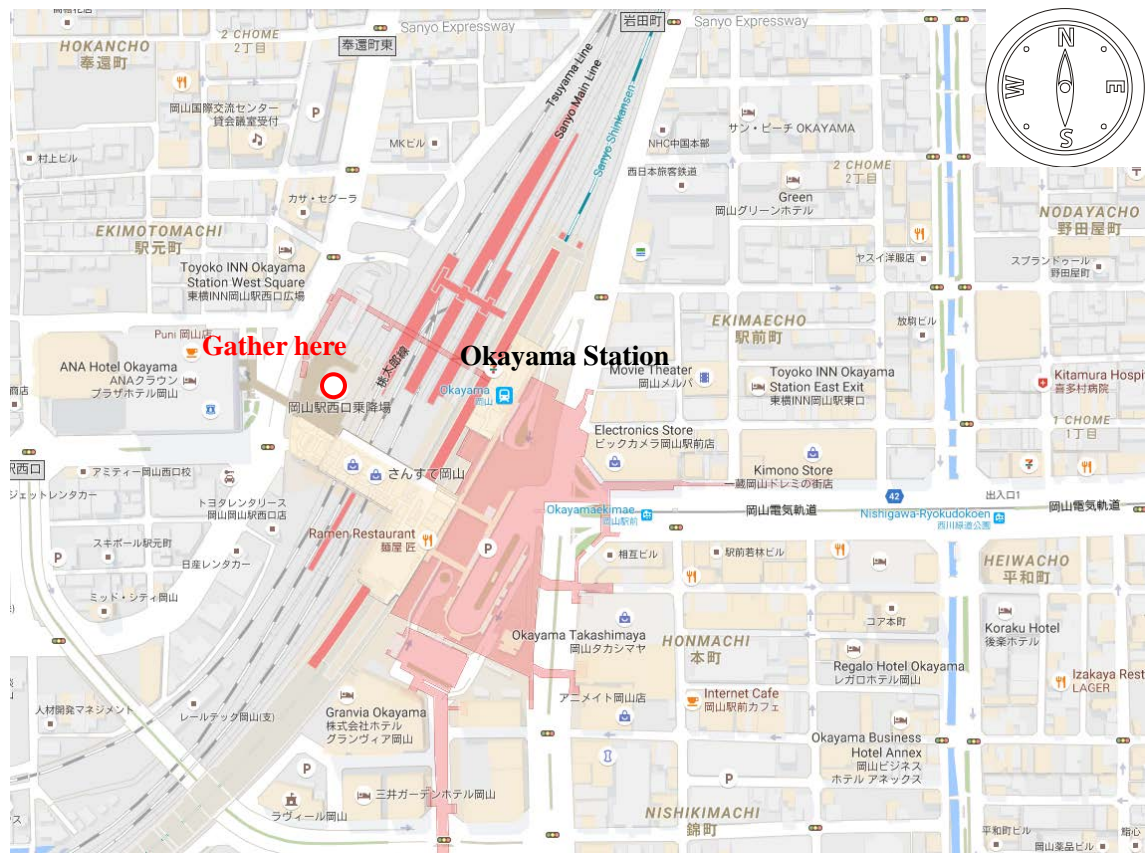
Tour fare: 2,500 JPY (Pre-registration required. Cash only. On-site payment.)

E-mail kokusai@jiban.or.jp for registration. (For participants from Japan)

Itinerary:

Time	Destination
12:20	Participants get together at the west side of Okayama Station (See Where to gather)
12:30	Depart from Okayama station west exit
	 Kayou roadside station (10 minutes for rest.)
14:20-15:20	Limestone cave called Ikura-dou (One of the biggest limestone caves in Okayama prefecture, which is about 1,200 m long and has a height difference of 90 m. 'Ikura' is the name of the district and 'dou' means cave. The admission fee is included in the tour fare.)
	
	Ikura-dou is located in the cliff along Takahashi River. These photos show the outside view and a section inside the cave. < https://www.okayama-japan.jp/en/spot/957 >
	 Kayou roadside station (10 minutes for rest.)
17:00-17:30	Kibi highway service area (We can buy some souvenirs or products special to Okayama.)
18:00	Arrive at Okayama station

Where to gather:



The participants should get together at the west side of Okayama Station by 12:20 because the bus leave there at 12:30 for the tour. The bus is indicated by 'Japan-Korea Geotechnical Workshop' on its front.