



CAMPUS Asia Launching Symposium

Water and Infrastructure Management under Changing Environment

2-3 February, 2017

Venue : Auditorium, Samsung Library, Sungkyunkwan University, Suwon, Korea

Shandong University in China, Nagasaki University in Japan, and Sungkyunkwan University (SKKU) in Korea established the SNS consortium for the CAMPUS Asia program for the purpose of nurturing leading infrastructure engineers. CAMPUS Asia (Collective Action for Mobility Program of University Students in Asia) is a reciprocal three-way student exchange program uniquely different from the conventional bilateral exchange programs. The SNS consortium will promote international collaborations among the three universities through joint education and research programs.

Today's Symposium is intended, first of all, to announce and celebrate the commencement of the SNS consortium for the CAMPUS Asia program. On behalf of the SKKU, I cordially invite you to the symposium. I hope that this symposium will act as a platform to share our visions, knowledges, and experiences in the field of water and infrastructure management as well as to discuss the successful future of the SNS consortium.

Kyung Soo Jun

Dean, Graduate School of Water Resources, SKKU



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Graduate School of Water Resources
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Korean Council for University Education



長崎大学
NAGASAKI UNIVERSITY

Graduate School of Engineering
Nagasaki University



Korea Water Resources Corporation



山东大学

School of Civil Engineering
Shandong University

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Day 1 2 February 2017

09:30~10:00 **Opening**

- 10:00~12:00 **Stability analysis and application of interlocking concrete slope protection**
Jian LIU (Shandong University)
- Large-scale geomechanical model testing of an underground cavern group in a true 3-D stress state**
Yong LI (Shandong University)
- Implementation of sensing/monitoring technology for civil infrastructure**
Takafumi NISHIKAWA (Nakasaki University)
- Post-earthquake restoration simulation of water distribution networks**
Doosun KANG (Kyung Hee University)
- Use of combined satellite derived images for 3 different types of drought assessment**
Joo-Heon LEE (Joongbu University)
- Integrated hydro-economic model for vision sharing under future uncertainty**
Gunhui CHUNG (Hoseo University)
- Tidal design and vertical datum infrastructure in the South West of Java Sea, Indonesia:
A preliminary reliability assessment**
POERBANDONO (Institut Teknologi Bandung)
- Initial assessment of economic development and natural hazards on Nha Trang coastal area, Vietnam**
Trong Vinh BUI (Ho Chi Minh City University of Technology)

12:00~13:30 **LUNCH**

- 13:30~15:30 **The cultivation and application of aerobic granular sludge in wastewater treatment**
Shuguang WANG (Shandong University)
- Intensified low-temperature performance of constructed wetlands by seasonal plant collocation and plant harvest**
Zhen HU (Shandong University)
- Water purification and resources recovery using nanotechnology**
Jong-Oh KIM (Hanyang University)
- Application of forward osmosis membrane system for seawater desalination and wastewater treatment**
Am JANG (Sungkyunkwan University)
- Primary and second radioisotope pollutions from Fukushima Daiichi nuclear power plant by particle method**
Susumu OGAWA (Nakasaki University)
- Eutrophication and toxic cyanobacteria problems in Asia and Africa**
Tomoaki ITAYAMA (Nakasaki University)
- Physical and cyber-physical choas: Climate change and 4th industrial revolution**
Joon Ha KIM (GIST)
- Hourly rainfall scenario generator considering climate change**
Dongkyun KIM (Hongik University)

16:00~18:00 **CAMPUS Asia round-table meeting**

Day 2 3 February 2017

09:30~12:00 **CAMPUS Asia round-table meeting**

13:00~18:00 **Technical Visit (Ara waterway and Sihwa tidal power plant sponsored by K-water)**