

セミナー「東アジアにおける気候変動に伴う沿岸リスク評価」  
The 2nd Korea-Japan-Taiwan Joint Seminar  
Climate Change Impacts on Coastal Engineering Problems



「共に開こう 新たな未来を」  
「함께 열어요 새로운 미래를」

Date: August 20-21

Venue: Seminar room 4 and 5 of Obaku Plaza in Uji Campus, Kyoto University

Organizer: K.D. Suh (Seoul National University), Nobuhito Mori (Kyoto University), Wei-Bo Chen (NCDR)

Sponsor: Japan Society for the Promotion of Science (JSPS)  
National Research Foundation of Korea (NRF)  
SOUSEI-D by MEXT of Japan

## Workshop Program

### Day 1 (8/20) 13:00-18:00

- 13:00-13:20 Opening Talk
  - Climate change and coastal engineering
    - Hajime Mase (KU)
- Session 1: Sea level rise and wave projection(Chair: Kuriyama)
  - Analysis of wave climate around Korea based on long-term hindcasting and local observation data
    - Sang-Ho Oh (KIOST)
  - Analyzing past and present wave condition around the Korean Peninsula
    - Se-Hyeon Cheon (SNU)
  - Global projection of future wave climate change
    - Tomoya Shimura (KU)
- Session 2: Storm surge (Chair: Suh)
  - Extreme storm surge projection
    - Yoko Shibutani (Tottori University, Japan)
  - Modeling coastal inundation induced by extreme weather and hydrology conditions

- Wei-Bo Chen (NCDR)
  - Storm surge modeling of Korean peninsula
    - Yang Jung-A (KU)
  - Coastal risk map of Taiwan and strategies for mitigating coastal disasters in Taiwan
    - Chih-Hsin Chang (NCDR)
- Session 3: Beach morphology (Chair: Yang)
  - Introduction to vulnerability analysis methodology and risk mitigation strategy of beach erosion due to climate change
    - Jung Lyul Lee (Sungkyunkwan University, Korea)
  - Projection of long-term beach profile
    - Yoshiaki Kuriyama (PARI)
  - A camera system for monitoring long-term shoreline changes
    - Taerim Kim (Kunsan National University, Korea)

### **Conference Dinner at Kihada (18:00-20:00)**

#### **Day 2 (8/21) 9:30-12:30**

- Session 4: Coastal structures and run-up (Chair: Yasuda)
  - Mitigation of Long-Wave run-up using submerged breakwaters
    - Ray-Yeng Yang (NCKU)
  - Effect of sea level rise on nearshore significant waves and coastal structures
    - Kyung-Duck Suh (SNU)
  - Analysis of seawall stability under climate change
    - Hajime Mase (KU)
- Session 5: Ocean downscaling and riskmapping (Chair: Mase)
  - A method for minimizing uncertainty of down-scaling the global scale model to the regional ocean circulation model
    - Jin Hwan Hwang (SNU)
  - Dynamical Simulation of Historical Storm Surge using Air-Sea-Wave Coupled Model
    - Junichi Ninomiya (Kanazawa University, Japan)
  - Downscaling of regional ocean circulation
    - Yuki Imai (KU)
- Discussion and future agenda
  - Future collaboration in East Asia
    - Coordinator: Mori (KU)
- 12:15-12:30 Closing Talk
  - Kyung-Duck Suh (SNU)

### **Expected Participants**

- Japan

- KU
  - Hajime Mase, Nobuhito Mori, Tomohiro Yasuda, Marc Kjerland
  - Andrew Kennedy
  - Students
- Kanazawa University
  - Junichi Ninomiya
- PARI
  - Yoshiaki Kuriyama (8/20), Masayuki Banno
- Tottori University
  - Yoko Shibutani
- Korea
  - SNU
    - Kyung-Duck Suh, Jin Hwan Hwang, Se-Hyeon Cheon
    - Students (2 Master students from SNU)
  - Sungkyunkwan University
    - Jung Lyul Lee
  - KIOST
    - Sang-Ho Oh, Weon-Mu Jeong, Kyong-Ho Ryu
  - Kunsan National University
    - Taerim Kim
- Taiwan
  - NCDR
    - Wei-Bo Chen, Chih-Hsin Chang
  - NCKU-THL
    - Ray-Yeng Yang, Hung-Chieh Tang
- China
  - Hohai University
    - Aifeng Tao

## Abbreviation

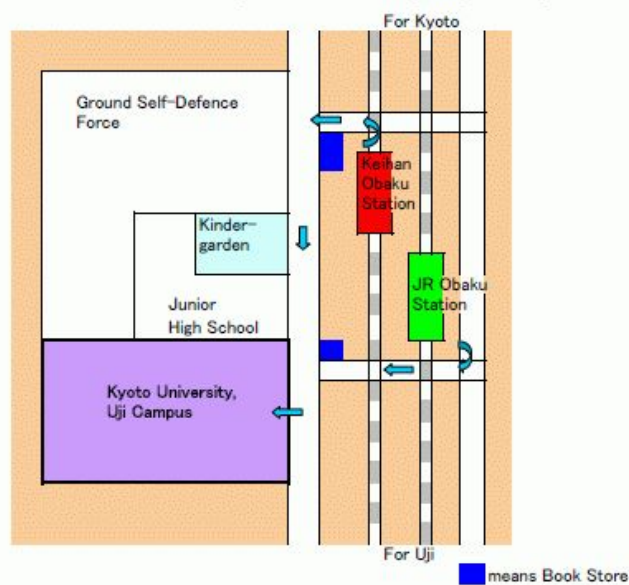
- KIOST      Korea Institute of Ocean Science and Technology
- KU          Kyoto University, Japan
- NCDR      National Science & Technology for Disaster Reduction, Taiwan
- NCKU      National Cheng Kung University, Taiwan
- PARI      Port and Airport Research Institute, Japan
- SNU        Seoul National University, Korea

## Travel Information

- Take JR Nara line (platform #9 or 10) at Kyoto Station
- Don't take rapid train. Only local train arrives Obaku station where is the nearest to Uji Campus
- Workshop venue is room 4 and 5 in Obaku Plaza in Uji campus

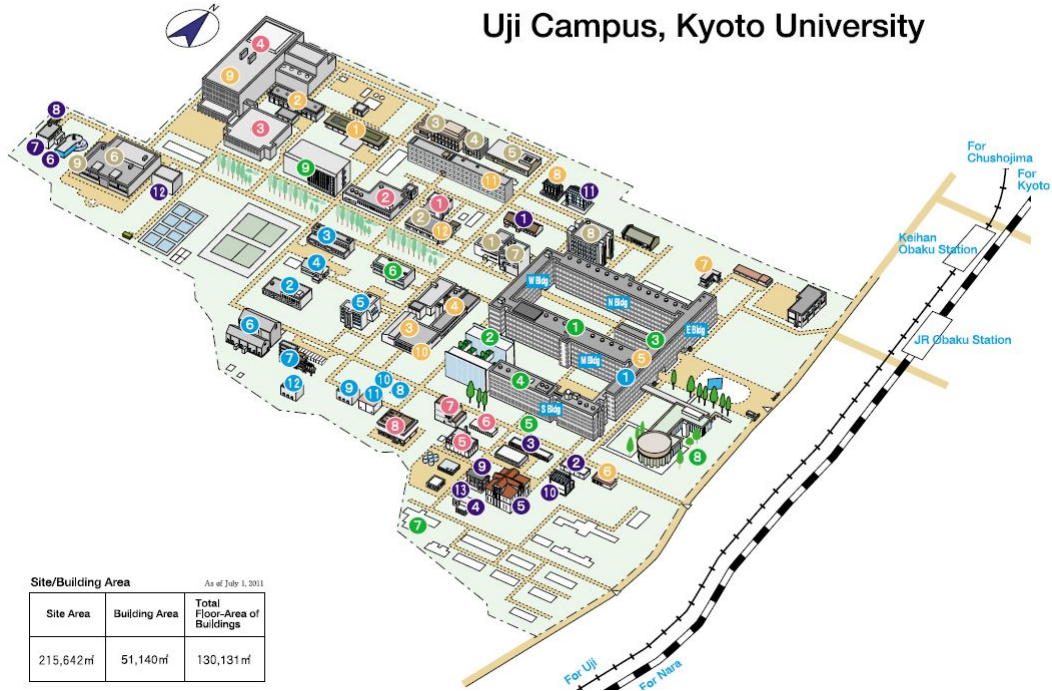


### Direction from both JR and Keihan Obaku Stations to Kyoto University, Uji Campus



Uji Campus is 7-minute walk from both Stations.

## Uji Campus, Kyoto University



- **Workshop place**

- Seminar room 4 and 5 at Obaku Plaza
  - Number #8 building on the map, next to seven eleven
  - <http://www.kyoto-u.ac.jp/en/access/uji/map.html>

- **Remarks**

- **20 min/speaker** including talk and discussion

Memo