

# JaWEiK6



The 6th Korea-Japan Joint Workshop on Wind Engineering

Wind Engineering for Global Safety and Environment



## Optional Program

November 1st, NSFC-JST Joint Workshop

November 2nd, Technical Visit

November 3rd, International Workshop on Full-scale Monitoring on Wind Engineering

November 4th-5th, Technical Visit

Date: October 31st, 2011

Venue: Disaster Prevention Research Institute, Kyoto University, Japan

Co-organized by

Japan Association for Wind Engineering

The Wind Engineering Institute of Korea

Global COE Program of Tokyo Polytechnic University



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## The 6th Korea-Japan Joint Workshop on Wind Engineering

Wind Engineering for global safety and environment

Kyoto, Japan, October 31st, 2011 (Optional program from Nov. 1st to 5th)

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### Date & Venue

Date Oct. 31 (Mon), 2011 (optional from Nov. 1st to Nov. 5)

Venue Seminar room #4 and #5, Oubaku plaza,  
Disaster Prevention Research Institute, Kyoto University, Japan

### Program

Time	Title	Presenter (Affiliation), Co-authors
9:30-9:45	Opening remarks	Prof. Hiromasa Kawai (Kyoto University, President of JAWE)
9:45-10:00	Wind-Resistant Design of ULSAN Bridge	Gi-Nam Kim (Hyundai Eng. & Const. Co., Ltd), Jung-Han Lee, Ju-Won Seo Ho-Kyung Kim, Yun-Seok Kim, Hitoshi Yamada, Hiroshi Katsuchi, Hiromichi Shirato
10:00-10:15	Restoration of causality condition for the convolution integral of aerodynamic force	Haesung Lee (Seoul National University)
10:15-10:30	Estimation of wake galloping of unparallel cylinders	Ho-Kyung Kim (Seoul National University)
10:30-10:45	Wind Resource Assessment of Building Integrated Wind Turbine by RS, NWP and CFD	Hyun-Goo Kim (Korea Institute of Energy Research)
10:45-11:00	Development of Automatic Wind Resource Analysis System by using CFD	Wan-Ho Jeon (CEDIC Co.)
11:00-11:15	Assessment of typhoon behavior and performance of TMD by system identification	Hongjin Kim (Kyungpook National University), Sunyoung Choi, Jeongwoo Jo, Jae-Seung Hwang, Eunjong Yu
11:15-11:30	Field measurements of architectural structures and their comparisons with structural analysis	Ji Young Kim (Daewoo Institute of Construction Technology)
11:30-11:45	CFD estimation of flutter derivatives for plate girder bridge	Jongdae Kim (Samsung C&T), Dr. Juntack Lim

- 11:45-12:00 Discussion
- 12:00-13:30 Lunch
- 13:30-13:45 Wind Engineering Group in China  
Yaojun Ge (Tongji University)
- 13:45-14:00 Wind Engineering Study in Tongji University  
Yaojun Ge (Tongji University) and Shuyang CAO
- 14:00-14:15 Wind Engineering Study in SWJTU  
Haili Liao (Southwest Jiaotong University) and Mingshui Li
- 14:15-14:30 A new approach for the calculation of wind-induced response: Generalized Coordinate Synthesis method  
Chen Kai (China Academy of Building Research)
- 14:30-14:45 Wind-induced Responses of Long Span Roofs  
Qing-Shan Yang (Beijing Jiaotong University)
- 14:45-15:00 Discussion
- 15:00-15:15 Break
- 15:15-15:30 Generation factors of dry-state galloping of stay-cables in consideration of surface conditions  
Tomomi Yagi (Kyoto University)
- 15:30-15:45 Results of field observation for vibration of cables on Tatara Bridge  
Susumu Fukunaga (Honshu-Shikoku Bridge Expressway Company Limited)
- 15:45-16:00 Damage to buildings in inundation area induced by tsunami -great east Japan earthquake  
Yasuo Okuda (Building Research Institute)
- 16:00-16:15 Design tornado for assessing important structures in Japan  
Masahiro Matsui (Tokyo Polytechnic University)
- 16:15-16:30 High-resolution meteorological modeling of wind extremes associated with weather disturbances  
Tetsuya Takemi (Kyoto University)
- 16:30-16:45 Wind damage to metal roof coverings due to typhoons in 2011  
Hiroaki Nishimura (General Building Research Corporation of Japan)
- 16:45-17:00 Structure of a pair of conical vortices and pressure on a flat roof in smooth and turbulent flows  
Hiromasa Kawai (Kyoto University)
- 17:00-17:30 Discussion
- 17:30-17:45 Closing remarks  
Prof. Sang-Joon Lee (President of WEIK)

**Optional Programs**

Nov. 1st, NSFC-JST Joint Workshop

Nov. 2nd, Technical Visit to Akashi-Kaikyo Great Bridge and E-defense

Nov. 3rd, Research Seminar on Full-scale Monitoring for Wind Disaster Mitigation

Nov. 4th-5th, Technical Visit to Shionomisaki field laboratory, Kyoto University