5th International Symposium on Wind Effects on Buildings and Urban Environment

Wind Hazard Resilient Cities: New Challenges

ISWE5, March 7-8, 2011

March 7-8, 2011

Hotel Sunroute Plaza Shinjuku, Tokyo, Japan

Organized by

Global COE Program 'New Frontier of Education and Research in Wind Engineering',
Tokyo Polytechnic University, (TPU-Global COE)

Cooperated by [Alphabetical order]

Architectural Institute of Japan (AIJ),
Council on Tall Buildings and Urban Habitat (CTBUH),
International Association for Wind Engineering (IAWE),
International Group for Wind-Related Disaster Risk Reduction (IG-WRDRR),
Japan Association for Wind Engineering (JAWE),
Japan Society of Atmospheric Environment (JSAE),
Japan Society of Civil Engineers (JSCE),
Meteorological Society of Japan (MSJ),
The Society of Heating, Air-Conditioning and Sanitary Engineers of Japan (SHASE)

Council on Tall Buildings and Urban Habitat

http://www.ctbuh.org/

Symposium Objective

Wind-related events account for a large percentage of the world's economic losses caused by natural disasters. Damage caused by extreme winds such as typhoons and tornadoes is clearly increasing. The number of severe wind induced damage incidents causing loss of life, serious societal impact and threats to national as well as regional security is also increasing, for instance, Hurricane Katrina in the USA in 2005, and Cyclone Nargis in Myanmar, which caused a death toll of as many as 140,000 people in May 2008. The effects of rapid urbanization, global warming and climate change are now regarded as indirect causes of these disasters.

Rapid urbanization and population concentration from the burgeoning economic development in the Pacific-rim countries increase energy consumption and worsen air quality as well as thermal comfort in urban environments. In order to tackle these problems, it is essential to reduce energy consumption by utilizing building ventilation and also to reduce air pollution as well as heat pollution by actively promoting urban ventilation.

The primary purpose of this symposium is to provide an ideal venue for exchanging and sharing information through discussion, so that serious wind-related problems regarding wind hazard risk due to meteorological turbulence such as typhoons and tornadoes, urban air pollution and increase of environmental load can be solved. The forum aims at contributing to the development and construction of sustainable urban environments with low energy built environment and hence to achieve wind hazard resilient cities.

International Association for Wind Engineering

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IG-WRDRR

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Sessions

- Urban disasters from the structural design perspective
- Effects of short-rise-time gust on structures
- Tornado-related issues
- Hurricane-related wind risks
- Damage detection analysis using satellite image
- Challenges to couple engineering CFD and meteorological models for analyzing urban climate change
- Countermeasures for the disasters

Invited Speakers (Alphabetical order)

Prof. Yaojun Ge (Tongji University)

Prof. Sungdae Kim (Korea University)

Prof. Hui Li (Harbin Institute of Technology)

Prof. Kishor Mehta (Texas Tech University)

Prof. Michael Schatzmann (The University of Hamburg)

Prof. Giovannni Solari (University of Genoa)

Dr. Win Zaw (Ministry of Construction Myanmar)

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Registration

*Registration method:
Please send your name, affiliation, and contact information to the ISWE5 bureau using e-mail (iswe5@arch.t-kougei.ac.jp)

*Payment method
Cash disbursement at the conference venue

*Registration fee
General Participants: 10,000JPY, Student Participants: Free
(General Speakers: 5,000JPY)
Lunch fee (March 7th and 8th) is included in the registration fee.