



---

**The 5th International Workshop on Structural Wind Engineering**  
**National Natural Science Foundation Program**  
*Strong/typhoon Wind Hazard Evolution of Major Structures and Bridges*  
**High-end Foreign Experts Recruitment Program**

## Announcement

### MAIN INFORMATION

**Event:** The Fifth International Workshop on Structural Wind Engineering  
**Date:** March 21, 2016  
**Venue:** Bridge Hall, Tongji University, 1239 Siping Road, Shanghai, China  
**Hosts:** State Key Laboratory of Disaster Reduction in Civil Engineering  
Tongji University

### SCOPE

Based on the ground research program of National Natural Science Foundation of China, Strong/Typhoon Wind Hazard Evolution of Major Structures and Bridges, and the High-end Foreign Experts Recruitment Program of China, the proposed workshop intends to cover wind hazard resistance of wind sensitive infrastructures, including super-long-span bridges, super-high-rise buildings and super-large spatial structures, with the specific topics:

- ◆ Characteristics of strong/typhoon wind field and aerodynamic forces models
- ◆ Dynamic hazard evolution and whole process numerical simulation and verification
- ◆ Failure mechanism and control principle of wind sensitive infrastructures

Both fundamental and latest knowledge related will be provided in the workshop. The workshop will be of interest to the program research team members as well as others who work in relevant scientific research or design topics.

### INVITED SPEEKERS

1. Prof. Ahsan KAREEM (University of Notre Dame, USA)  
Title: Triple emerging fronts of wind engineering
2. Prof. Yukio TAMURA (Beijing Jiaotong University, China)  
Title: Wind load on solar array and wind-induced vibration of solar wing
3. Assistant Prof. Teng WU (University at Buffalo, USA)  
Title: Rapid assessment of wind-structure interaction with nonstationary and nonlinear considerations



---

## PRESENTATION

09:00-09:10: Opening  
09:10-10:00: Prof. Ahsan Kareem  
10:00-10:15: Coffee break  
10:15-11:05: Prof. Yukio Tamura  
11:05-11:45: Prof. Teng Wu  
11:45-12:45: Lunch

## DISCUSSION

13:30-14:15: Simulation of Strong/Typhoon Wind Field and Characteristics  
14:15-15:00: Wind Hazard Evolution Process and Control of Super Long Bridges  
15:00-15:15: Coffee break  
15:15-16:00: Wind Hazard Evolution Process and Control of Super High Buildings  
16:00-16:45: Wind Hazard Evolution Process and Control of Spatial Structures  
16:45-17:30: Conclusions  
18:00-20:00: Dinner

## PARTICIPANTS

KAREEM, Ahsan (University of Notre Dame, USA)  
TAMURA, Yukio (Beijing Jiaotong University, China)  
WU, Teng (University at Buffalo, USA)  
XIANG, Haifan (Tongji University, China)  
SONG, Lili (Public Meteorological Service Center, Beijing)  
ZHU, Ledong (Tongji University, Shanghai)  
GE, Yaojun (Tongji University, Shanghai)  
CHEN, Zhengqing (Hunan University, Hunan Province)  
LI, Hui (Haerbin Institute of Technology, Heilongjiang Province)  
GU, Ming (Tongji University, Shanghai)  
LI, Zhongnong (Hunan University, Hunan Province)  
LI, Qiusheng (Hunan University, Hunan Province)  
YANG, Qingshan (Beijing Jiaotong University, Beijing)  
WU, Yue (Haerbin Institute of Technology, Heilongjiang Province))

## CONTACT:

Prof. Ledong ZHU	Dr. Lin ZHAO
E-mail: <a href="mailto:ledong@tongji.edu.cn">ledong@tongji.edu.cn</a>	E-mail: <a href="mailto:linzhao@tongji.edu.cn">linzhao@tongji.edu.cn</a>
Phone: +86 13916580996	Phone: +86 13564696598
Fax: +86 21 65984882	Fax: +86 21 65984882

State Key Laboratory of Disaster Reduction in Civil Engineering  
Tongji University, 1239 Siping Road, Shanghai 200092, China