International Workshop on Base for Introducing Talents of Civil Engineering Discipline

——International Workshop on High-performance Wind Energy System and Effective Operation of Wind Farms (HPWES) and Mitigating Wind-induced Disaster of Wind-sensitive Infrastructure (MWDWSI)

(October 18-19, 2018, Chongqing, China)

Sponsored by:

Base for Introducing Talents of Discipline to University on High-performance Wind Energy System and Effective Operation (Chongqing University)

Base for Introducing Talents of Discipline to University on Wind-sensitive Infrastructure and Wind-induced disaster mitigation (Beijing Jiaotong University)

School of Civil Engineering, Chongqing University

Organized by:

Journal of *Building Structure*

Supported by:

Department of Science, Education, Culture and Health Experts, State Bureau of Foreign Experts Affairs

Key Dates：

Sign-up：September 27, 2018

Registration: October 19, 2018

Conference: October 20-22, 2018

Venue:

Chongqing Empark Grand Hotel

Address: (No.1, 2nd Branch, Jianxin North Road, Jiangbei District, Chongqing, China)

1. Brief Introduction

To advance the process of promoting Chinese colleges and universities to be world-class, “plan of innovation and intelligence-importing for some disciplines of Chinese colleges and universities (Plan 111)” has been jointly organized by Ministry of Education and State Administration of Foreign Experts Affairs since 2006. The plan will establish some disciplines frontiers with strong innovation ability, and upgrade the scientific renewal and peers competition of Chinese universities. Based on the annual academic meeting of Base for Introducing Talents of Discipline to University on High-performance Wind Energy System and Effective Operation (HPWES) and Base for Introducing Talents of Discipline to University on Wind-sensitive Infrastructure and Wind-induced disaster mitigation (MWDWSI), **International Workshop on Base for Introducing Talents of Civil Engineering Discipline** invites the domestic and foreign high-level experts to exchange the latest academic progresses. The theme of this forum involves characteristics of extreme winds, bluff body aerodynamics, Computational Fluid Dynamics (CFD), wind-resistant design of large-scale structures such as long-span structures and high-rise buildings, conditional assessment and health monitoring for wind sensitive structures, Wind resources assessment and wind power forecast, new high-performance structure of wind turbine, and disaster-resistant performance of large-scale wind power facilities under extreme conditions. Researchers and students in universities and research centers and research and educational institutes, relevant engineers and governors are all very welcome to join the forum.

2. Keynote Lectures

Oct. 18th

Time	Speaker	Position / Company	Presentation
8:30-9:00	**Opening Ceremony**		
Session Chairman: Bo Yang			
09:00-09:25	Theodore Stathopoulos	Concordia University	Urban Wind Energy
09:25-09:50	Kishor Mehta	Texas Tech University	Technical Challenges in Wind Farm
09:50-10:10	**Group Photo + Tea Break**		
Session Chairman: Theodore Stathopoulos			
10:10-10:35	Y. Tamura	Chongqing University	Aerodynamic and response characteristics of super-tall buildings with various configurations
10:35-11:00	Ahsan Kareem	University of Notre Dame	Model-based and data-driven stochastic simulation of wind effects
11:00-11:25	Ji-Jian Lian	Tianjin University	New Foundation structure, installation technology and equipment for offshore wind turbine
11:25-11:50	You-Lin Xu	Hong Kong Polytechnic University	Optimal variable pitch for high-solidity straight-bladed vertical wind turbines
Lunch Break			
Session Chairman: Ahsan Kareem			
14:00-14:25	Giovanni Solari	University of Genova	Dynamic response of structures to thunderstorm outflows
14:25-14:50	Richard George James Flay	The University of Auckland	Advanced wind turbine research at the University of Auckland
14:50-15:15	Zhong-Dong Duan	Harbin Institute of Technology	Typhoon Wind Hazard Under Climate Change
15:15-15:40	Kenny C S Kwok	The University of Sydney	High-performance wind energy system for buildings in an urban environment
15:40-15:55	**Tea Break**		
Session Chairman: Y. Tamura			
15:55-16:20	Siu-Seong Law	Hong Kong Polytechnic University	Identification of nonlinear wind-induced aerodynamic forces on a SDOF system
16:20-16:45	Nan Zhang	Beijing Jiaotong University	Aerodynamic behavior and derailment simulation of high-speed vehicle

16:45-17:10	Yong Chul, Kim	Tokyo Polytechnic University	Wind-induced vibrations of solar wing system under various wind environments
17:10-17:35	Xin-Zhong Chen	Texas Tech University	Wind load effects of tall buildings: Inelastic response and base isolation

Oct. 19th

Time	Speaker	Position / Company	Lecture Theme
Session Chairman: Charalampos Baniotopoulos			
08:30-08:55	Billie F. Spencer, Jr.	University of Illinois at Urbana-Champaign	Topology Optimization for Stochastically Excited Structures
08:55-09:20	Qing-Shan Yang	Chongqing University	Main Contents of the Wind Load Standard of Roof Structures
09:20-09:45	Soon-Duck Kwon	Chonbuk National University	Blockage corrections for wind tunnel tests of vertical axis wind turbines
09:45-10:10	Dai Zhou	Shanghai Jiaotong University	Offshore Wind Turbine and Floating Vertical Axis Wind Turbine Structural System
10:10-10:25	**Tea Break**		
Session Chairman: Giovanni Solari			
10:25-10:50	Kincho H. Law	Stanford University	Optimization of Wind Farm Layout for Maximizing Wind Farm Power Production
10:50-11:15	Yoshida Akihito	Tokyo Polytechnic University	Wind resistance performance and wind-induced damage of inflatable amusement products
11:15-11:40	Guo-Qing Huang	Chongqing University	Non-stationary winds and wind load effects
11:40-12:05	Qiu-Sheng Li	City University of Hong Kong	Observations of wind characteristics and wind effects on super-tall buildings during super typhoon Mangkhut
Lunch Break			
Session Chairman：Billie F. Spencer, Jr.			
14:00-14:25	Charalampos Baniotopoulos	University of Birmingham	On the Assessment of High Performance Wind Turbine Towers by means of Sustainability Criteria
14:25-14:50	Xin-Qun Zhu	University of Technology Sydney	Condition assessment of heritage timber buildings in operational environments
14:50-15:15	Na Yang	Beijing Jiaotong University	Experimental investigation for the fatigue performance and damage estimation of screw-fastened light-gauge-steel sheets
15:15-15:40	Horia Hangan	University of Western Ontario	New experiments for wind energy applications

15:40-15:55	**Tea Break**		
Session Chairman：Qing-Shan Yang			
15:55-16:20	Giuseppe Piccardo	University of Genova	Energy production and structural behaviour of small size wind turbines in urban environment
16:20-16:45	Feng Xu	Beijing Jiaotong University	Large-scale simulation of buoyancy induced flows on a roof
16:45-17:10	Yingli Xuan	Tokyo Polytechnic University	Verification of nonphysical attenuation of artificially generated inflow turbulence based on Lattice Boltzmann Method with a LES
17:10-17:35	Jakob Mann	Technical University of Denmark	Lidars for research and control of wind turbines

3. Registration

（1） **Registration Fee:** 2000 RMB/person (including collection of keynote lectures, meals, tea break, **site** fee and attendance fee etc.)

（2） **Registration:** please visit the official website： www.buildingstructure.cn， download and fill out the meeting receipt in the left bulletin board， see the attachment, and send it to：jzjg2016@qq.com before September 27, 2018. The organization committee will reply within 3 working days. If no reply is received, please contact the organization committee.

（3） **Payment:**

Payee name： Asia-Pacific Institute of Construction Scitech Information Co., Ltd.;

Bank name: East Sanhuan Sub-branch, Beijing, China Merchants Bank

Bank Account number: 110908001310606;

Bank Address： No.1 East Sanhuan North Road, Chaoyang District, Beijing China

Swift: CMBCCNBS

Remittance message: HPWES + "Participant's name"

Reminder: Please try to use the bank remittance (counter transfer, online bank and mobile bank), we suggest not to use Ali-pay remittance (due to Ali-pay system will cause incomplete remittance information to delay entry and invoice issuing).

（4） **Conference Venue:** EMPARK GRAND HOTEL (No.1, 2nd branch, Jianxin North Road, Jiangbei District, Chongqing), large-bed room and standard room are 450 RMB / room / day (breakfast included). The accommodation fee will be paid directly to the hotel after the registration on conference site, and cost of accommodation will be covered by the attendance. The participants can also book their own accommodation at other hotels.

4. Contact Information

Journal of *Building Structure*

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