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

Hosted 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

【住宿】

请所有代表于 10 月 17 日 10:00~20:00 或 18 日早 8:00 前到重庆世纪金源大饭店(重庆市江北区 建新北路二支路 1 号,酒店前台电话 023-67958888)一层大厅报到。退房时间为退房当日的下午 14:00 前,请各位代表合理安排自己的行程。

[Accommodation]

Please register in the Chongqing Empark Grand Hotel lobby from 10:00-20:00 on Oct. 17 or before 8:00 a.m. on Oct. 18. Checking out is no later than 14:00 p.m. per day. The Chongqing Empark Grand Hotel locates at No.1, 2nd Branch, Jianxin North Road, Jiangbei District, Chongqing. Service phone number is +8623-67958888.

【代表证和餐券】

代表证是入会场的唯一凭证,请务必随身佩带,内有餐券,凭券就餐,遗失不补,请妥善保管。

[Representative card and buffet ticket]

The representative card and buffet tickets are included in the same card set, which will be distributed during registration. Please take the representative card along with you for entering the meeting room and dining hall.

【发票】

已汇款注册代表,请在18、19日10:00-16:00到会务组处领取发票;现场缴费代表,缴费时先开具收据, 发票将于会后15个工作日快递给您,开具收据时请务必提供准确的发票信息和联系电话,需要增值税 专用发票的请提前备好相关信息。另外,为了方便沟通交流,建议带上本人名片。

[Invoice]

Pre-registered delegates can receive the invoices with the bank receipt from the registration desk from 10:00-16:00 on Oct.18 and 19. For those delegates who register onsite will receive a receipt first, and the invoice will be sent to you in 15 workdays. Please provide the title of the invoice and contact information when you pay on site. For better communication, it is kindly suggested to bring the name card.

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■参会代表外出时注意安全,如需帮助请及时与会务组联系。

Please pay attention to your safety when you go out. If you have any problem, please contact conference staffs.

会务组联系方式 Contact information of conference staff

吴 琼: 13810273081(会议报到),赵 翘: 18516861038(会议住宿)
彭留留: 15928853319(会场报告),李 娜: 15801601545(会议咨询)
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会议及住宿地点 Location for the conference and accommodation

重庆世纪金源大饭店(重庆市江北区建新北路二支路1号)。住宿费:450元/间/天(含早餐)。在 会议现场报到完成后,请将住宿费直接交付宾馆,费用自理。

Chongqing Empark Grand Hotel (No.1, 2nd Branch, Jianxin North Road, Jiangbei District, Chongqing. Accommodation fee: 450 RMB / day/ per room (breakfast included). The accommodation fee will be paid by yourself when you check in.





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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 Windsensitive 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 educational institutes, relevant engineers and governors are all very welcome to join the forum.

Overview

		Venue: Chongqing Empark Grand Hotel			
Wednesday, Oct.17, 2018					
10:00-20:00	Registration	Lobby			
18:00-19:30	Dinner(buffet)	Cafeteria, 1 st LG Floor			
Thursday, Oct.18, 2018					
8:30-11:50	Keynote presentations	Grand banquet hall 2, 3 rd Floor			
11:50-13:30	Lunch(buffet)	Cafeteria, 1 st LG Floor			
14:00-17:35	Keynote presentations	Grand banquet hall 2, 3 rd Floor			
17:35-19:00	Dinner(buffet)	Cafeteria, 1 st LG Floor			
Friday, Oct.19, 2018					
8:30-12:05	Keynote presentations	Grand banquet hall 2, 3 rd Floor			
12:05-13:30	Lunch(buffet)	Cafeteria, 1 st LG Floor			
14:00-17:35	Keynote presentations	Grand banquet hall 2, 3 rd Floor			
17:35-19:00	Dinner(buffet)	Cafeteria, 1st LG Floor			

Opening and Keynotes

October 18, 2018						
Time	Speaker	Affiliation	Presentation			
Chair: Qingshan Yang						
08:30-09:00	Opening Ceremony					
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	09:50-10:10 Group Photo(Hotel main entrance) + Tea Break					
Chair: Theodore Stathopoulos						
10:10-10:35	Yukio 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	Jijian Lian	Tianjin University	New Foundation structure, installation technology and equipment for offshore wind turbine			
11:25-11:50	Youlin Xu	Hong Kong Polytechnic University	Optimal variable pitch for high-solidity straight-bladed vertical wind turbines			
Lunch Break						
Chair: 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	Zhongdong 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				
Chair: Yukio 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	Xinzhong Chen	Texas Tech University	Wind load effects of tall buildings: Inelastic response and base isolation			

Keynotes

October 19, 2018						
Time	Speaker	Affiliation	Lecture Theme			
Chair: 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	Qingshan 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				
Chair: 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	Guoqing Huang	Chongqing University	Non-stationary winds and wind load effects			
11:40-12:05	Qiusheng Li	City University of Hong Kong	Observations of wind characteristics and wind effects on super-tall buildings during super typhoon Mangkhut			
		Lunch Break				
		Chair: 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	Xinqun 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					
Chair: Qingshan 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	Transition to chaos of natural convection in a valley			
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			

Minutes of the meeting



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