

# The 16th International Advanced School on Wind and Structural Engineering (IAS16)

(October 20-22, 2018, Chongqing)

## 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)

## Organized by:

School of Civil Engineering, Chongqing University

Wind Engineering Joint Usage/Research Center, Tokyo Polytechnic University, Japan

Journal of *Building Structure*

## Supported by:

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

**Key Dates:** Sign-up: October 10, 2018; Registration: October 20, 2018; School: October 20-22, 2018

**Venue:** Chongqing Empark Grand Hotel

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

## 1. Aims and Recruitment of Students Scope

Structural and wind engineering are important research areas in the civil engineering field. The 16th international advanced school on wind and structural engineering, which was initiated and is presided over by Prof. Yukio Tamura, Academician of the Chinese Academy of Engineering (CAE), and former President of the International Association of Wind Engineering (IAWE), Professor Emeritus of Tokyo Polytechnic University and Professor of Chongqing University, will be held in Chongqing, China from October 20 to 22, 2018. The course will covers wind flow characteristics, building and bridge aerodynamics under stationary and non-stationary strong winds, equivalent wind loads and wind-induced responses, wind tunnel techniques, computational fluid dynamics (CFD), damping in buildings for wind resistant design, urban wind energy, structural health monitoring, high-performance steel structures, and so on.

Researchers and students in universities and research and educational institutes, relevant engineers and governors are all very welcome to join the IAS16.

## 2. Schedule

Saturday, October 20, 2018			
8:15 - 8:50	Registration		
8:50 - 9:00	Opening		
Chair: S.Y. Cao			
9:00 - 9:50	Strong wind and characteristics	S.Y. Cao	Tongji University, China
10:00 - 10:50	Bluff body aerodynamics	R. Flay	University of Auckland, New Zealand
11:00 - 11:50	Wind-induced vibrations of structures with special reference to tall buildings	K.C.S. Kwok	University of Sydney, Australia
11:50 - 12:00	Assembly Photo (G.Q. Huang & S.T. Gu)		
Lunch Break			

Chair: G.Q. Huang			
13:00 - 13:50	Dynamic along-wind, crosswind and torsional response of slender structures	G. Solari	University of Genova, Italy
14:00 - 14:50	Multimode coupled response of long-span bridges to strong winds	X. Chen	Texas Tech University, USA
15:00 - 15:50	Cable dynamics and galloping oscillations	G. Piccardo	University of Genova, Italy
16:00 - 16:50	Numerical simulation of wind effects	A. Kareem	University of Notre Dame, USA
Sunday, October 21, 2018			
Chair: S.T. Gu			
9:00 - 9:50	Thunderstorm loading and response of structures	G. Solari	University of Genova, Italy
10:00 - 10:50	Adverse effects of wind-induced building motion on occupant	K.C.S. Kwok	University of Sydney, Australia
11:00 - 11:50	Pedestrian-level wind investigations for determining comfort categories	R. Flay	University of Auckland, New Zealand
Lunch Break			
Chair: B.W. Yan			
13:00 - 13:50	Code for wind-resistant design of roof structures in China	Q.S. Yang	Chongqing University, China
14:00 - 14:50	Wind loads on canopies and solar panels	T. Stathopoulos	Concordia University, Canada
15:00 - 15:50	Urban wind energy	T. Stathopoulos	Concordia University, Canada
16:00 - 16:50	Structural design of onshore tall steel wind turbine towers	C. Baniotopoulos	Concordia University, Canada
Monday, October 22, 2018			
Chair: Y. Tamura			
9:00 - 9:50	CFD applications to structural wind engineering problems	S.Y. Cao	Tongji University, China
10:00 - 10:50	Damping in buildings for wind-resistant design	Y. Tamura	Chongqing University, China
11:00 - 11:50	Building dampers under long duration earthquakes or winds	K. Kasai	Tokyo Institute of Technology, Japan
Lunch Break			
Chair: Q.S. Yang			
13:00 - 13:50	Damage to long-span roof structures due to earthquakes, winds or snow	K. Kawaguchi	University of Tokyo, Japan
14:00 - 14:50	Equivalent linearization of nonlinear structures subjected to stochastic excitations	B.F. Spencer	University of Illinois UC, USA
15:00 - 15:50	Stochastic structural optimization	B.F. Spencer	University of Illinois UC, USA
16:00 - 16:50	Efficient observation of random field - Proper Orthogonal Decomposition (POD)	Y. Tamura	Chongqing University, China
16:50 - 17:20	Closing & Certification Ceremony		

### 3. Tuition Fees

	Full-time student (with student ID card)	Other personnel
Fees (RMB)	800	1400

Note: Cost of the course covers all material expenses, site fees, attendance fees and so on.

### 4. Sign-Up

Please visit the official website of the Journal of *Building Structure*: [www.buildingstructure.cn](http://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](mailto:jzjg2016@qq.com) before October. 10, 2018. The IAS16 Secretariat will reply within 3 working days whether or not your sign-up has been accepted. If no reply is received, please contact the conference group as soon as possible.

Payment information is as follows:

- ◆ 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: IAS + “participant’s name”

**Special reminder:** Please try to use the bank remittance (counter transfer, online bank or mobile bank), we suggest that you do not use Ali-pay remittance (because the Ali-pay system gives incomplete remittance information, which will delay entry and invoice issuing).

### 5. Accommodation

The IAS16 Secretariat is not responsible for hotel reservations. Please make your own hotel reservation in advance.

The hotels listed below are close to the venue:

**Chongqing Empark Grand Hotel:** No.1, 2nd branch, Jianxin North Road, Jiangbei District, Chongqing. Tel: 023-67958888

**Chongqing Yimei Hotel:** No. 36 Jianxin North Road, Jiangbei District. Distance to EMPARK HOTELS & RESORTS is 1.2km. Tel: 023-67098888

**Lifeng Hotel:** (Pedestrian street shop, Guanyin Bridge, Chongqing). No 38, Donghuan Road, Guanyin Bridge, Jiangbei District. Distance to EMPARK HOTELS & RESORTS is 1.0km. Tel: 023-67027888

**Osling Hotel:** (Chongqing Yellow Mud Pound Subway Store) Zhongxin Building, No. 155, Zikang Road, Huangniubin, Jiangbei District. Distance to EMPARK HOTELS & RESORTS is 2.8km. Tel: 023-67452333

**Chongqing National Air Hotel:** (Harahefu Hotel) No. 2 Hongjin Avenue, Jiangbei District (next to Exit 4, Light Rail Station, Red Flag Channel). Distance to EMPARK HOTELS & RESORTS is 2.1km. Tel: 023-67533333, 67636666

**Yunchen Times Hotel:** (Chongqing Liujia Wharf Store) No. 196, Beibin Road, Jiangbei District (10th floor, Haosheng, Pearl River). Distance to EMPARK HOTELS & RESORTS is 4.0 km. Tel: 023-68460775

### 5. Contact information for conference affair

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Qiong Wu: 010-57368787 (Registration inquiry);

Na Li: 010-57368783, 15801601545 (Conference consultation and investment promotion);

Bin Wang: 010-57368786, 18500192668 (Conference consultation and investment promotion);

Fax: 010-57368781; Email: [jzjg2016@qq.com](mailto:jzjg2016@qq.com) (registration only); Website: [www.buildingstructure.cn](http://www.buildingstructure.cn).

Chongqing University

Bowen Yan: 15683789537 (Conference consultation)