**The 17th International Advanced School on Wind and Structural Engineering (IAS17)**

**（****August 30 to September 1, 2019, Beijing）**

**Sponsored by:**

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

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

**Organized by:**

School of Civil Engineering, Beijing Jiaotong University

Beijing’s Key Laboratory of Structural Wind Engineering and Urban Wind Environment

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：August 1, 2019；School : August 30 – September 1, 2019

Venue: Conference Hall, 2nd Floor, the Mechanical Engineering Building, Beijing Jiaotong University (No.3, Shangyuancun Road, Haidian District, Beijing)

1. **Aims and Recruitment of Students Scope**

Structural and wind engineering are important research areas in the civil engineering field. The 17th International Advanced School on Wind and Structural Engineering (IAS17), 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 of Chongqing University, will be held in Chongqing, China from August 30 to September 01, 2019. 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), urban wind energy, wind-resistant design of solar panels and wind turbines, and so on.

Researchers and students in universities and research and educational institutes, relevant engineers and governors are all very welcome to join the IAS17.

1. **Schedule**

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| **Friday, August 30, 2019** |
| 8:15 - 8:50 |  Registration |
| 8:50 - 9:00 |  Opening |
| Chair: Y. Tamura |
| 9:00 - 9:50 | The Atmospheric Boundary Layer | R. Flay | University of Auckland, N.Z. |
| 10:00 - 10:50 | Strong wind and characteristics | S.Y. Cao | Tongji University, China |
| 11:00 - 11:50 | Bluff Body Aerodynamics | R. Flay | University of Auckland, N.Z. |
| 11:50 - 12:00 | Assembly Photo (B. Chen & B. Li) |
| Lunch Break |
| Chair: B. Li |
| 13:00 - 13:50 | Wind loads on canopies and solar panels | T. Stathopoulos | Concordia University, Canada |
| 14:00 - 14:50 | Urban wind energy | T. Stathopoulos | Concordia University, Canada |
| 15:00 - 15:50 | CFD applications to structural wind engineering problems | S.Y. Cao | Tongji University, China |
| 16:00 - 16:50 | Most efficient observation of random phenomena | Y. Tamura | Chongqing University, China |
| **Saturday, August 31, 2019** |
| Chair: B.. Chen |
|  9:00 - 09:50 | Partial Turbulence Simulation: Rationale and Applications  | P. Irwin  | RWDI, Canada |
| 10:00 - 10:50 | Wind-induced vibrations of structures with special reference to tall buildings |  K.C.S. Kwok | University of Sydney, Australia |
| 11:00 - 11:50 | Adverse effects of wind-induced building motion on occupant |  K.C.S. Kwok | University of Sydney, Australia |
| Lunch Break |
| Chair: J. Zhang |
| 13:00 - 13:50 | Wind induced fatigue of steel structures I: Modeling vortex resonance | R. Hoeffer | Ruhr University Bochum, Germany |
| 14:00 - 14:50 | Wind induced fatigue of steel structures II: Fatigue related life time estimation of wind turbine structures | R. Hoeffer | Ruhr University Bochum, Germany |
| 15:00 - 15:50 | Structural design of high performance steel wind energy structures and related topics | C.Baniotopoulos | University of Birmingham, U.K |
| 16:00 - 16:50 | High performance steel wind turbine towers: Assessment from a lifecycle perspective | C.Baniotopoulos | University of Birmingham, U.K |
| **Sunday, September 1, 2019** |
| Chair: Y.J. Tian |
|  9:00 - 09:50 | Wind Speeds in Tornadoes | K. Mehta | Texas Tech University, U.S.A |
| 10:00 - 10:50 | ASCE 7-16 Wind Loads on Low-Rise Buildings | K. Mehta | Texas Tech University, U.S.A |
| 11:00 - 11:50 | Code for wind-resistant design of roof structures in China | Q.S. Yang | Chongqing University, China |
| Lunch Break |
| Chair: Q.S. Yang |
| 13:00 - 13:50 | Dynamic Response of Structures to Non-Stationary Winds – The Generalized Wind Loading Chain | A. Kareem | University of Notre Dame, USA |
| 14:00 - 14:50 | Equivalent linearization of nonlinear structures subjected to stochastic excitation | B.F. Spencer | University of Illinois UC, USA |
| 15:00 - 15:50 | Stress-level buffeting analysis of long-span bridges with twin-box decks | Y.L. Xu | Hong Kong Polytech University, China |
| 16:00 - 16:50 | Vortex-induced vibration of long-span bridges with twin-box decks | Y.L. Xu | Hong Kong Polytech University, China |
| 16:50 - 17:20 |  Closing & Certification Ceremony |

1. **Tuition Fees**

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|  | 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.

1. **Sign-Up**

Please visit the official website of the Journal of *Building Structure*: <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 August 1, 2019. The IAS17 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).

1. **Accommodation**

The IAS17 Secretariat is not responsible for hotel reservations. Please make your own hotel reservation in advance.

The hotels listed below are close to the venue:

**Hong Guo Yuan Hotel**: No.3, Shangyuancun Road, Haidian District, Beijing. Distance to School Venue is 300m. Tel: 010-51685100；

**Qiu Guo Hotel**: No. Jia 4, Shangyuancun Road, Haidian District, Beijing. Distance to School Venue is 700m. Tel: 010-82204282；

**Shang Yuan Hotel**: No. 40, Gaoliangqiao Xiejie Road, Haidian District, Beijing. Distance to School Venue is 900m. Tel: 010-51555599；

**Golden Inns (Beijing Meiyuan Hotel)**: No. Jia 30, Gaoliangqiao Xiejie Road, Haidian District, Beijing. Distance to School Venue is 1km. Tel: 010-62241115；

**Super 8 Hotel (West gate of Beijing Jiaotong University)** : No. 15, Gaoliangqiao Xiejie Road, Haidian District, Beijing. Distance to School Venue is 700m. Tel: 010-62165262.

1. **Contact information for conference affair**

Journal of *Building Structure*

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);

Email:jzjg2016@qq.com (registration only);

Website: [www.buildingstructure.cn](http://www.buildingstructure.cn).

Beijing Jiaotong University

Bo Li: 13810377245（Conference consultation）

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| **Special Notice**1. Regarding invoice matters: Please check with our financial department before filling out the receipt form to check if you need a special invoice to be issued for VAT. If necessary, please provide accurate VAT invoice information, including: invoice title (name), tax number, address, telephone, bank account, account number. If you do not provide the VAT special invoice information, a VAT general invoice will be issued by default. After the invoice is issued, it cannot be returned or changed.
2. Please use bank remittance (counter transfer, internet banking or mobile bank). We suggest that you do not use Alipay remittance (because the Alipay system gives incomplete remittance information, which will delay account and invoice)
3. Deadline: Please submit the receipt form and pay the conference fee before 1st, August, 2019.
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| **Attached：IAS17 Membership Receipt Form （fill in the complete information send to: jzjg2016@qq.com）** |
| **Name of the representative** | **Affiliation** | **Position or title** | **Telephone** | **E-mail** |
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| Remittance information | Remittance mode (Bank, WeChat ) |  |
| Remittance time ( Format: year / month / day ) |  |
| Remittance unit ( If you are sending money in your personal capacity, please indicate the sender ) |  |
| Remittance amount ( Yuan ) |  |
| If you need an invoice, please fill in the information. | Invoice sheet number (No special requirement for a total amount ) |  |
| Invoice title ( Please be accurate ) |  |
| Duty paragraph |  |
| Invoice content | Conference expenses |
| Invoice receiver information | Name |  |
| Address ( Give all details to ensure your mail is not lost ) |  |
| Tel |  |
| If you need to issue a special invoice for VAT, fill in the relevant information on the right; **If you do not fill in the right blank column, VAT invoice will be issued by default, and it can not be replaced or returned after issuing.** | Invoice title ( Name ) |  |
| Duty paragraph |  |
| Address |  |
| Tel |  |
| Bank of deposit |  |
| Account number |  |

Note:

1. Prepaid representatives (with remittance voucher) collect invoices at the conference site.
2. On-site payment accepts cash only. Invoice will be sent by courier 15 days after the meeting.
3. For convenience of communication, we suggest you bring your business card.