

# The 15<sup>th</sup> International Symposium on Structural Engineering (ISSE-15)

(Second Announcement)

24-27 October 2018

China Hangzhou



**Sponsor: National Natural Science Foundation of China, China**

**Organizer: Zhejiang University, China**

**Co-organizer: Zhejiang University of Technology, China**

## INTRODUCTION

The 15th International Symposium on Structural Engineering (ISSE-15) will be held in Hangzhou on October 24-27, 2018. The ISSE-15 is sponsored by the National Natural Science Foundation of China (NSFC). It will be organized by Zhejiang University. The Symposium was derived from the International Symposium on Structural Engineering for Young Experts (ISSEYE) which was held in Leshan, China since 1990. It has been held biannually in China since in Harbin (1992), Shanghai (1994), Beijing (1996), Shenyang (1998), Kunming (2000), Tianjin (2002), Xi'an (2004), Fuzhou (2006), and Changsha (2008). In 2010, the title of the symposium was updated to "The International Symposium on Structural Engineering (ISSE)" and then held in Guangzhou (2010), Wuhan (2012), Hefei (2014) and Beijing (2016) with this title. Till now, it has been successfully held for 14 times. With more than 20 years' development, ISSE has become attractive to many young and middle-aged elite Chinese scholars all over the world with its distinct characteristics and features.

The ISSE-15 takes inheritance, development, openness and imagination as the tenet. The objective of ISSE-15 is again to provide a forum for experts from the research and engineering communities, who work worldwide in the broad areas of structural engineering and construction, to present recent progress in research and development; to exchange information on the topics of design theory about structural system and performance, construction and maintenance management, disaster impact, structural failure mechanism and behavior control, modern structural experiment, measurement and numerical simulation techniques; to discuss the application of innovative technologies and techniques for the safety and sustainable development of infrastructures; to promote close international collaboration and cooperation; to figure out the future development of structures in the coming 20 years.

## THEME

Major topics included (but not limited to):

- Structural system and design theories
- Green building and industrialization
- Theories and methods of structural performance analysis
- Advanced structural experimental techniques
- Advanced sensing technology, sensor networks, structural monitoring and control
- Disaster prevention and mitigation, protection of infrastructures
- Soil-structure interaction
- Large scale and complex infrastructure and spatial structures
- Reliability and durability of structures
- Structural rehabilitation, retrofitting and strengthening
- Heritage building performance and assessment
- Application of artificial intelligence in Civil Engineering

## CONFERENCE PROGRAMME

Date	Time	Activities
Oct. 24, 2018	10:00—21:00	Check In & Registration
Oct. 25, 2018	8:00—12:00	Opening Ceremony & Plenary Reports
	14:00—18:00	Parallel Sessions
Oct. 26, 2018	8:00—12:00	Keynotes Reports
	14:00—18:00	Parallel Sessions
Oct. 27, 2018	8:00—12:00	Plenary Reports & Closing Ceremony
	14:00—17:00	Technical Tours

## LOCATION

### Hangzhou

Hangzhou's history dates back to 2,200 years ago during the Qin dynasty (221-206 BC). The city was chosen as capital of the Wuyue Kingdom (907-978 AD) and the Southern Song Dynasty (1127-1279 AD). It is one of the seven ancient capitals of China. Hangzhou is famous for its beautiful scenery, and crowned as the paradise on earth. Hangzhou benefited from the convenience of the Beijing-Hangzhou canal and trade ports, as well as its own developed silk and grain industry, which historically served as an important commercial distribution center. Thereafter, relying on the railway, as well as Shanghai's import and export trade, its industry experienced a rapid progress. Hangzhou has a large number of cultural relics most of which scattered around West Lake, and the main representative among them include the West Lake culture, Liangzhu culture, silk culture, tea culture, etc. And a lot of stories and legends are handed down, and become cultural representatives of Hangzhou.

## PLENARY AND KEYNOTE REPORTS

### Plenary Reports (TBC) (In alphabetical order)

Reporter	Institute	Topic
ZQ CHEN	Hunan University	索支承桥的多阶涡振问题研究
YL DU	Shijiazhuang Railway Institute	关于推进我国交通基础设施重大工程结构长寿命安全保障战略的研究
XL LV	Tongji University	To be confirmed
KJ MA	Guizhou University	To be confirmed
JP OU	Dalian University of Technology / Harbin Institute of Technology	Structural Health Monitoring and the Life Prediction and Maintenance of Civil Infrastructures
BF Spencer	UIUC	To be confirmed
JG TENG	Hong Kong Polytechnic University	Structural Engineering Innovations with Emerging Materials
ZS WU	Southeast University	Recoverability and Sustainability Enhancement of Structures with Advanced FRP Reinforcements

YM XIE	RMIT	拓扑优化技术在结构工程领域的应用
YB YANG	Chongqing University/ Taiwan University	The role of rigid body rotations in nonlinear structural analysis
ZB YIN CB YUN	KAIST/ Zhejiang University	ICT Convergence to Civil Infrastructural Engineering
QR YUE	General institute of architectural research of MCC	To be confirmed
XH ZHOU	Chongqing University	To be confirmed

**Keynote Reports (TBC) (In alphabetical order)**

<b>Reporter</b>	<b>Institute</b>	<b>Topic</b>
CS CAI	Louisiana State University	Performance investigation of low-rise buildings under hurricane wind loading
GD CHEN	University of Missouri Science and Technology	SHM, structural materials, and multi-hazard assessment and mitigation
JF CHEN	Queen's University Belfast	FRP confined seawater and sea-sand concrete
F FAN	Harbin Institute of Technology	To be confirmed
Q FANG	PLA university of science and technology	冲击爆炸荷载作用下混凝土结构的数值模拟
HB GE	Meijo University	高性能阻尼器的力学特性及在地上和地下结构中的减震机理与效能研究
XL GU	Tongji University	Time-dependent reliability analysis of corroded reinforced concrete beams considering non-uniform corrosion of steel bars
LH HAN	Tsinghua University	钢管再生混凝土结构的研究进展（暂定）
HP Hong	University of Western Ontario	To be confirmed
WL JIN	Zhejiang University	The Life-Cycle Analysis & Design of Concrete Structures and its Application
GQ LI	Tongji University	Development of Structural Metal Dampers for Seismic Disaster Mitigation of Buildings
H LI	Harbin Institute of Technology	工程系统的智能流体动力学与流动控制
HN LI	Dalian University of Technology	To be confirmed
QS LI	City University of Hong Kong	To be confirmed

ZJ LI	Hong Kong University of Science and Technology	To be confirmed
XZ LI	Tianjin University / Tianjin Urban Construction Institute	Progress on Development of Underwater Earthquake Simulation Shaking Table Array
GX LU	Swinburne University of Technology / Tianjin Urban Construction Institute	折纸结构的能量吸收
Y LU	University of Edinburgh	Beam assemblies in a progressive collapse scenario: overview and some recent studies
GW MA	University of Western Australia / Hebei University of Technology	混凝土 3D 打印研究现状和展望
WX REN	Hefei University of Technology	Application of power spectral density transmissibility (PSDT) to operational modal analysis of bridges: case studies
GB SONG	University of Houston	To be confirmed
J TENG	Harbin Institute of Technology (Shenzhen)	Design theory with optimal failure mode and engineering applications for the new high-rise seismic resistant structural systems
CQ WU	University of Technology Sydney/ Tianjin Urban Construction Institute	Cement-based and Geopolymer-based Ultra-High Performance Concrete under High Rate Loading
JZ XIAO	Tongji University	混凝土组合与组合混凝土结构
Y XIA	Hong Kong Polytechnic University	Construction Monitoring of A Supertall Structure
SL XU	Zhejiang University	韧性混凝土
QS YANG	Chongqing University	Recommendations in the Chinese Professional Standard for Wind Loads on Roof Structures
JH YE	China University of Mining and Technology	Fire test and numerical simulation investigation of mid-rise cold-formed steel composite shear wall structures
HP ZHU	Huazhong University of Science and Technology	Structural condition assessment of long-span bridges based on precise local damage inspection technique
XQ ZHU	University of Technology Sydney / Tianjin Urban Construction Institute	Condition Assessment of Highway Bridges under Traffic Loadings

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## REGISTRATION

### 1. Registration Fee:

Before 15 September 2018, Regular delegate: CNY 2100 (USD 330); Student delegate: CNY 1500 (USD 250).

After 15 September 2018, Regular delegate: CNY 2400 (USD 380); Student delegate: CNY 1800 (USD 300).

Conference fee includes conference proceedings, conference banquet, daily meals and coffee breaks.

**2. Payment Method:**

- ① QR Code Payment via WeChat;
- ② Conference Homepage: [www.isse15.com](http://www.isse15.com);
- ③ Pay at Checking in.

Invoices are available for all payment methods.

Note: Delegates who have been registered and submitted papers on the conference homepage can log into personal accounts and finish the payment. Delegates who made no paper submission should register on the conference webpage first before payment. The collection of conference fees is supported by third-party platform. Please click the 'Back to Merchant' button after the payment. This will lead you back to the conference webpage and complete the payment steps.

3. Payment of conference fee will start after August 15, 2018.
4. For papers to be included in conference proceedings, at least one of the paper authors should complete registration and payment before September 30, 2018.
5. Sign up for the conference: This conference can sign up through conference webpage or WeChat QR Code. WeChat QR Code:

