

The Third Workshop of High Performance Steel Structures Research Council (HPSSRC Workshop III)

Second Announcement



October 9-12, 2024, Beijing, China

Organizer: Tsinghua University

Co-organizers:

China Steel Construction Society

China Construction Metal Structure Association

China Engineering Construction Welding Association

National Technical Standard Innovation Base of Construction Engineering

Structural Engineering Branch of China Civil Engineering Society

Advanced Engineering Materials Branch, China Civil Engineering Society

Key Laboratory of Civil Engineering Safety and Durability, Ministry of Education,

Tsinghua University

Chairmen: Gang Shi, Tsinghua University

Milan Veljkovic, Delft University of Technology

HPSSRC Workshop

The International Research Council, named *High Performance Steel Structures Research Council* (HPSSRC), was founded in 2018 and initiated by Prof. Gang Shi, Prof. Frans Bijlaard,

and Prof. Milan Veljkovic. The first HPSSRC workshop was successfully held in 2018 in Delft, the Netherlands, and HPSSRC Workshop II was held online in 2020. In 2024, **HPSSRC Workshop III** will be held on **October 9-12** in Beijing, China. **HPSSRC Workshop III** will be open to public registration, welcoming widespread participation from academic and industrial experts, covering research, design, processing, construction, and consulting within the field of steel structures.

Themes

The primary focus of **HPSSRC Workshop III** will be on high strength steel structures, 3D printed steel structures, and high performance steel fatigue behavior, while also welcoming other presentations related to structures about high performance steels, e.g., stainless steel, low-yield-point steel, shape memory alloy steel, fire-resistant steel, weathering steel, etc.

Workshop Arrangement

HPSSRC Workshop III will be held on October 9-12 at **Liaoning International Hotel**, located at North 4th Ring Road West Road Jia 2, Hai Dian District, Beijing, China.

October 9	Registration, Tsinghua Structural Lab tour, Welcome reception
October 10 (morning)	Registration, Opening ceremony, Keynote lectures
October 10 (afternoon)	Parallel sessions
October 11 (morning)	Parallel sessions
October 11 (afternoon)	Keynote lectures, Closing ceremony
October 12 (morning)	Technical tour

Workshop Registration

Category	Early-bird (No later than June 30)	Regular (After June 30)	Tips
Regular attendee	¥ 2,800 \$ 400	¥ 3,200 \$ 450	Reception, workshop sessions, lunches/dinners, and banquet
Technical tour	¥ 400 \$ 50		Optional

Note: Payment channel will be accessible soon.

Key Dates

- Indication of participation and abstract submission: ~~April 30, 2024~~ **May 31, 2024**
- Abstract acceptance: ~~May 31, 2024~~ **June 15, 2024**
- End of early-bird registration: **June 30, 2024**
- On-site registration: **October 9, 2024**
- Workshop: **October 9-12, 2024**

Confirmed Invited Keynote Speakers



Lecture topic: HSS from the Perspective of European Structural Steel Design - What is Important?

Prof. Markus Feldmann
RWTH Aachen University, Steel Construction Institute, Germany
Homepage: www.stb.rwth-aachen.de



Lecture topic: Local Buckling Slenderness Limits for High Performance Steel and Composite-Steel Concrete Structures

Prof. Brian Uy
The University of New South Wales, Australia
Homepage: <https://www.unsw.edu.au/staff/brian-uy>



Lecture topic: An Overview of High Performance Steel Research and Application in Korea

Prof. Cheol-Ho Lee
Seoul National University, Korea
Homepage: <https://snu-archisteel.com>



Lecture topic: Challenges and New Insights for the Design and Execution of Welded Joints on High-strength Steels

Prof. Richard Stroetmann
Technische Universität Dresden, Institute for steel and timber construction, Germany
Homepage: https://tu-dresden.de/bu/bauingenieurwesen/ish/stahlbau/die-professur/inhaber?set_language=en



Lecture topic: Building Strength in WAAM-Processed 3D Printed Alloys

Dr. David Andrade
University of Coimbra, ISISE, ARISE, Portugal
Homepage: <https://isise.net/>



Lecture topic: To Be Determined

Prof. Gang Shi
Tsinghua University, China
Homepage: <https://www.civil.tsinghua.edu.cn/ceen/info/1061/1175.htm>



Lecture topic: Recent Developments on the Testing, Modelling and Application of WAAM Elements in Construction

Prof. Milan Veljkovic
Delft University of Technology, the Netherlands
Homepage: <https://www.tudelft.nl/en/staff/m.veljkovic/>



Dr. Xin Meng
Imperial College London, UK
Homepage: <https://www.imperial.ac.uk/people/xin.meng15>

TO BE CONTINUED...

Call for Abstracts

We hope that participants in **HPSSRC Workshop III** can prepare **an abstract** and a PowerPoint presentation. Both conventional and extended abstracts are welcome according to the author's needs. You are cordially invited to submit an abstract before **May 31, 2024** to hpssrc@tsinghua.edu.cn

Abstract template: <https://cloud.tsinghua.edu.cn/d/c05123b0d2e84132bb6b/>

Each participant will receive a certificate of this workshop. This workshop only requires abstract submissions and compiles proceedings of the abstract and PPT files. The proceedings are not designed for publication. The copyright of the corresponding papers is preserved with their respective authors. The proceedings will be available only for internal communication among the attendees. Concurrently, a **special issue of the *Journal of Constructional Steel Research (JCSR)*** will be organized, and we will cordially invite all participants to contemplate expanding their abstracts into full-length papers for potential publication in this special issue.

Local Organizing Committee

Chairman: Prof. Gang Shi, Tsinghua University, China

Co-Chairman: Assoc. Prof. Xin Nie, Tsinghua University, China

Vice chairmen: Dr. Jing Luo, Tsinghua University, China

Prof. Lei Zhu, Beijing University of Civil Engineering and Architecture, China

Prof. Lu Yang, Beijing University of Technology, China

Prof. Meng Wang, Beijing Jiaotong University, China

Members: Dr. Huatian Zhao, Dr. Xingqian Li, Dr. Shuailing Li, Dr. Chunlei Zhang, Dr. Runze Cai, Dr. Tengfei Li, Mr. Chenhao Liu, Ms. Jiaying Huang, Mr. Haokai Qian, Mr. Shiqi Zhou.

Contact

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