

First Announcement & Call for Abstracts

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



October 9-12, 2024, Beijing, China

Organizer: 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. HPSSRC focuses on research related to high performance steel structures. “High performance steel” (HPS) herein includes high strength steel, stainless steel, weathering steel, fire-resistant steel, high-toughness steel, low-yield-point steel, memory alloy steel, additive manufacturing steel and other types/grades of steel used in construction different from low-grade carbon steel. The main objective of the council is to systematize existing knowledge and encourage new research activity using HPS by organizing workshops to facilitate discussions among researchers and by preparing e-books and short reports to disseminate research results for ease of use of HPS in practical applications. It brings together experts in research and education from all over the world to promote cooperation and communication in the field of high performance steel structures.

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** (October 9 for registration, October 10-11 for workshop, and October 12 for technical tour) 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. We are looking forward to meeting you and discussing the state of the art of HPS in construction.

Steering Committee

Prof. Gang Shi, Tsinghua University, China

Prof. Milan Veljkovic, Delft University of Technology, the Netherlands

Prof. Brian Uy, The University of New South Wales, Australia

Prof. Luis Simoes da Silva, University of Coimbra, Portugal

Prof. Leroy Gardner, Imperial College London, UK

Prof. Markus Feldmann, RWTH Aachen University, Germany

Prof. Xudong Qian, National University of Singapore, Singapore

Prof. Richard Stroetmann, University of Dresden, Germany

Prof. Andreas Taras, ETH Zurich, Switzerland

Prof. Kyungkoo Lee, Dankook University, Korea

Prof. Tak-Ming Chan, Hong Kong Polytechnic University, Hong Kong, China

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.

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 **April 30, 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

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participants to contemplate expanding their abstracts into full-length papers for potential publication in this special issue.

Scientific Committee Members

Ms. Nancy Baddoo, Steel Construction Institute, UK
Prof. Charalampos Baniotopoulos, University of Birmingham, UK
Prof. Frans S.K. Bijlaard, Delft University of Technology, the Netherlands
Prof. Timo Björk, Lappeenranta University of Technology, Finland
Prof. Tak-Ming Chan, Hong Kong Polytechnic University, Hong Kong, China
Prof. Yiyi Chen, Tongji University, China
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Prof. Raffaele Landolfo, University of Naples Federico II, Italy
Prof. Cheol-Ho Lee, Seoul National University, Korea
Prof. Chi King Lee, The University of New South Wales, Australia
Prof. Hak-Eun Lee, Korea University, Korea
Prof. Kyungkoo Lee, Dankook University, Korea
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Prof. Johan Maljaars, TNO, the Netherlands
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Prof. Hartmut Pasternak, BTU, Germany
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Assoc. Prof. Carey Walters, Delft University of Technology, the Netherlands
Prof. Zhan Wang, South China University of Technology, China
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Prof. Lu Yang, Beijing University of Technology, China
Prof. Ben Young, Hong Kong Polytechnic University, Hong Kong, China
Prof. Ailin Zhang, Beijing University of Technology, China
Prof. X.L. Zhao, Hong Kong Polytechnic University, Hong Kong, China
Prof. Weihui Zhong, Xi'an University of Architecture and Technology, China

Key Dates

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

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

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Contact

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