

Second Announcement and Call for Papers

# ISHT-10

**10<sup>th</sup> INTERNATIONAL SYMPOSIUM  
ON HEAT TRANSFER**  
BEIJING, CHINA  
July 7-10, 2020

**Organized by:**

Key Laboratory for Thermal Science and Power Engineering of Ministry of Education  
Key Laboratory of CO<sub>2</sub> Utilization and Reduction Technology of Beijing  
Department of Energy and Power Engineering, Tsinghua University, Beijing, China

**Co-Organizers:**

Chinese Society of Engineering Thermophysics  
Tsinghua-Shanxi Research Institute for Clean Energy Science and Technology on Scramjet Laboratory

**Sponsors:**

National Natural Science Foundation of China  
Beijing Sunlectric Technology Co., Ltd  
Focusing Solar Science & Technology Co., Ltd

[www.isht10.net](http://www.isht10.net)



**Venue**

ISHT-10 will be held at the Capital Hotel (Shoudu Binguan), a five-star hotel in the central downtown area of Beijing. The hotel is in the Qianmen and Wangfujing commercial areas, close to many scenic spots including Tiananmen Square, the National Museum of China and the Forbidden City. The hotel is also next to the historic Dong Jiao Min Xiang Alley. With this central location, the Capital Hotel is easily accessible by subway and bus.

Beijing in Northern China is the capital of the People's Republic of China. Beijing is one of the Four Great Ancient Capitals of China and the city hosted the 2008 Olympic Games. Beijing is described as "one of the world's great cities" and is renowned for its opulent palaces, temples, and huge stone walls and gates. Beijing's art treasures and universities have long made the city a center of culture and art in China.

Tsinghua University is a key Chinese university that celebrated its 108 year anniversary in 2019. Tsinghua University has established an international reputation for excellence in education and research. The importance of Tsinghua as an international scientific research institution has risen in recent years with the emergence of China as an economic and industrial world power.



**Theme**

Rapid advances in traditional and renewable energy and power systems, aviation and aerospace sciences, MEMS/NEMS, unconventional energy resources, environmental protection and biomedical engineering all require that the heat transfer community significantly improve heat and mass transfer rates and energy utilization to facilitate use of these advanced technologies in nearly all fields. The nine previous ISHTs, which were initiated by Prof. B.X. Wang in 1985, enhanced the international dissemination of recent advances in heat and mass transfer research. A large number of papers were presented describing significant advances in heat transfer research from around the world. The International Organizing Committee seeks to continue the valuable international exchange of new information and ideas in the heat transfer field for the 21<sup>st</sup> century by organizing the ISHT in Beijing every four years.

**Program**

On-site registration for ISHT-10 will begin on July 7<sup>th</sup> (Tuesday) with presentations beginning on the morning of July 8<sup>th</sup> and the conference banquet on the evening of July 9<sup>th</sup>. The final plenary sessions will be presented on July 10<sup>th</sup>, 2020.

Day	Morning	Afternoon	Evening
Day 1, July 7 <sup>th</sup>	Registration		Reception
Day 2, July 8 <sup>th</sup>	Plenary	Plenary	Free
Day 3, July 9 <sup>th</sup>	Sessions	Sessions	Banquet
Day 4, July 10 <sup>th</sup>	Plenary	Lab tour	BBQ

**Symposium Chair**

Professor Pei-Xue Jiang  
Institute of Engineering Thermophysics  
Department of Energy and Power Engineering  
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## Topics

Papers are solicited on all aspects of heat and mass transfer, including:

1. Fundamental transport phenomena theory and applications
2. Micro/Nano heat and mass transfer
3. Nano-fluid heat and mass transfer phenomena
4. Transport phenomena and process analyses in rotating machinery and rotating channels
5. Two-phase and multi-phase flow and heat transfer
6. Heat and mass transfer in porous or dispersed media
7. Radiation heat transfer and combined heat transfer modes
8. Heat transfer enhancement
9. Protective cooling for high temperature components
10. Biological and cryogenic heat and mass transfer
11. Solidification and melting
12. Mathematical analyses and numerical simulations of all modes of heat transfer
13. Experimental measurement techniques for heat and mass transfer processes
14. Transport phenomena and analyses of heat and mass transfer under the influence of electrical and magnetic fields and chemical reactions
15. Heat transfer at super-critical pressures
16. Industrial heat transfer and heat exchangers
17. Heat and mass transfer for environmental protection and renewable and unconventional energy resources
18. Heat and mass transfer in nuclear reactors

## Call for Papers

All papers will be written and presented in English. The content of the abstract will be the basis for acceptance of the paper for the oral presentations and posters at the symposium. All the papers accepted for presentation will be arranged on a USB drive for the delegates. The symposium will NOT hold the copyright of the papers.

To submit a paper, please submit an abstract to the website at [www.isht10.net](http://www.isht10.net). Abstracts should be no more than 300 words (about one page) and should clearly state the purpose, results and conclusions of the work to be described in the full paper. Templates for the abstract and paper are available at [www.isht10.net](http://www.isht10.net).

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## Important Dates

- ◆ Mar 31, 2020: Abstract submission due
- ◆ Apr 30, 2020: Abstract acceptance notification
- ◆ May 31, 2020: Early-bird Registration & Payment
- ◆ May 31, 2020: Final paper submission
- ◆ Jun 30, 2020: Final Registration & Online Payment

## Format

The symposium will include:

**Plenary & Keynote papers** presented by invited speakers

**General contributed papers** presented orally or in poster sessions by the authors.

Tours organized for the conference delegates.

## Proceedings

Papers will be reviewed by the conference technical and organizing committees under the direction of the International Scientific and Advisory Committees.

The authors of all accepted abstracts should then submit extended abstracts or full papers. Selected full papers will be recommended to appropriate peer-reviewed journals.

## Registration Fee

### Full Delegate:

RMB ¥ 3500 or 500 USD (before May 31, 2020)

RMB ¥ 4200 or 600 USD (after June 1, 2020)

### Accompanying guest:

RMB ¥ 1400 or 200 USD (before May 31, 2020)

RMB ¥ 2100 or 300 USD (after June 1, 2020)

The Registration fee includes coffee breaks and three meals during the days of the symposium. Detailed registration and accommodation information will soon be available at: [www.isht10.net](http://www.isht10.net)

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