





## Second Announcement and Call for Papers

3rd Asian Conference on Thermal Sciences (ACTS 2024) June 23 - 27, 2024, Shanghai, China

The Third Asian Conference on Thermal Sciences (ACTS 2024) will be held in Shanghai, China on June 23-27, 2024. It is a follow-up conference to the first two successful conferences, which were held in Jeju, Korea (2017), and Fukuoka, Japan (2021). ACTS 2024 is organized by Asian Union of Thermal Science and Engineering (AUTSE) and Chinese Society of Engineering Thermophysics and supported by Heat Transfer Society of Japan, Korean Society of Mechanical Engineers, Australasian Fluid and Thermal Engineering Society and Indian Society for Heat and Mass Transfer.

Thermal sciences play a crucial role in energy revolution and achieving carbon neutrality. The ACTS, as an important series conference (once every four years), was launched by AUTSE and has become one of the largest conferences in the area of thermal sciences in the Asia Pacific and even around the world. The main objective of ACTS 2024 is to bring together researchers, scientists, and engineers from Asia and also other part of the world for sharing the most recent advances and exciting research outcomes in thermal sciences. It will provide a platform to facilitate international collaborations and promote joint efforts.

## **MAJOR TRACKS**

include but are not limited to:

- Track 1: Bio and Medical Applications
- Track 2: Boiling, Evaporation and Condensation
- Track 3: Carbon Capture, Utilization and Storage
- **Track 4: Combustion**
- Track 5: Computational Methods and Simulations
- **Track 6: Conduction**
- Track 7: Convective Heat Transfer
- **Track 8: Electronic Cooling and Thermal Management**
- Track 9: Energy Storage
- Track 10: Heat Exchangers and Industrial Applications
- **Track 11: Melting and Solidification**
- Track 12: Metamaterial and Thermoelectric Devices
- Track 13: Micro/Nano Heat Transfer
- **Track 14: Multiphase Flow**
- Track 15: Nuclear Energy
- **Track 16: Porous Media**
- Track 17: Refrigeration and Cryogenics
- Track 18: Solar/Renewable Energy
- **Track 19: Thermal Radiation**
- Track 20: Thermocatalysis, Thermochemistry and Energy Conversion
- Track 21: Thermophysical Properties and Measurements
- Track 22: Others



## PLENARY SPEAKERS (IN ALPHABETIC ORDER)

2 plenary lectures per day for 4 days



**ALEKSEENKO Sergey** Russian Academy of Sciences, Russia

"Novel Technologies of Low-**Emission Combustion of Water-**Fuel Mixtures"



**CHEN Gang Massachusetts Institute** of Technology, USA

"Thermal and Photomolecular Evaporation"



KIM Min Soo Seoul National University, Korea

"Dynamic Model Development and Model Predictive Control for Variable Refrigerant Flow (VRF) **Heat Pump System**"



**SEFIANE Khellil** The University of Edinburgh, UK

"Vapour Mediated Interactions of Volatile Droplets"



SUN Chao Tsinghua University, China

"Explosive Boiling of Drops Near a Solid Surface and Inside a Turbulent Flow"



TAKAHASHI Koji **Kyushu University, Japan** 

"Nanoscopic Insights into Droplets, Bubbles, and Solid Surfaces"



**ZHANG Qiming** Penn State University, USA

"Electrocaloric Cooling--Present and Future Perspective"



**ZHAO Tianshou Southern University of** Science and Technology, China

"Flow Cells for Long-Duration **Energy Storage**"

## **IMPORTANT DATES & INFORMATION**

Dec. 15, 2023

CHAIR

**ZHAO Chang-Ying** 

Co-CHAIRS

SHIKAZONO Naoki

**JEONG Ji Hwan** 

jihwan@pusan.ac.kr

shika@iis.u-tokyo.ac.jp

Shanghai Jiao Tong University, China

changying.zhao@sjtu.edu.cn

The University of Tokyo, Japan

**Pusan National University, Korea** 

Submission of two-page extended abstract for oral presentation

Jan. 15, 2024

Submission of one-page abstract for poster presentation

Apr. 30, 2024

Early-bird registration deadline

**EMAIL** 

acts3rd@sjtu.edu.cn

WEBSITE

https://acts3.situ.edu.cn

**VENUE** 

Shanghai Fuyue Hotel, Shanghai, China

