



## **2024 China Heat Pump Conference (CHPC2024)**

**August 27-30,2024**

**Shenzhen, China**

### **3<sup>rd</sup> Announcement of CHPC2024**

Decarbonization of thermal energy is one common challenge of humanity, and heat pump will play an important role for carbon-neutrality. The China Heat Pump Conference offers an opportunity, where experts from different countries & regions could gather together and share their opinions on how to further develop and promote heat pumps. This will be of great significance to our sustainable development in the future. The 2024 China Heat Pump Conference (CHPC2024) will be held on August 27-30, 2024 in Shenzhen, China. The conference covers essential information on the latest technologies, market applications, policies interpretation and standards information in heat pumps.

### **Sponsor**

The International Institute of Refrigeration (IIR)  
The Chinese Association of Refrigeration (CAR)

### **Conference Chair**

Prof. Yi Jiang, President of the Chinese Association of Refrigeration, Tsinghua University.

### **Scientific Committee Chair**

Prof. Ruzhu Wang, Shanghai Jiao Tong University

## **Plenary Lecture**

### **Heat Pump in China - Past, Present and Future.**

Prof. Yi Jiang (Tsinghua University)

### **Development and Application of Digital Twin for Heat Pump System.**

Prof. Min Soo Kim (Seoul National University)

### **Heat Pumps: The Enablers of Essential Human Needs.**

Prof. Srinivas Garimella (Georgia Institute of Technology)

### **Energy storage for clean heating and cooling – challenges and recent progress.**

Prof. Ding Yulong (University of Birmingham)

### **Heat Pumps in Industrial Drying Systems.**

Prof. Trygve M. Eikevik (Norwegian University of Science and Technology)

### **Natural Refrigerants based Heating and Cooling Systems.**

Prof. Pradip Dutta (Indian Institute of Science)

### **Heat storage for flexible operation of heat pumps and reduced load on the electric grid.**

Prof. Christian Schweigler (Munich University of Applied Sciences)

### **R&D Achievements of Heat Pump Technologies in Hokkaido University towards the Realization of a Carbon Neutral Society.**

Prof. Katsunori Nagano (Hokkaido University)

### **The role of heat pump systems in the future smart cities.**

Prof. Hatem Madani (KTH Royal Institute of Technology)

### **High-Temperature Heat Pumps: Market Overview, State of the Art, and Application Potentials.**

Dr. Cordin Arpagaus (Swiss Federal Institute of Technology Zurich)

### **The operating principle and development trend of different heat pump technologies for realizing superwide and large-glide temperature range from -200°C to 1000°C.**

Prof. Ercang Luo (University of Chinese Academy of Sciences)

## **Conference topic**

The conference has scheduled a total of 14 forums, as outlined below:

- 1) Advanced technology development of heat pumps;
- 2) Application and Research of heat pump refrigerants;
- 3) Application of intelligent heating technology with heat pumps;
- 4) CO<sub>2</sub> heat pump systems;
- 5) Exceptional engineering project of heat pump;
- 6) Heat pump frosting and defrosting;
- 7) Heat pump performance prediction & control;
- 8) Heat pump systems for agriculture applications;
- 9) Heat pump systems for industrial applications;
- 10) Heat pump systems for transport applications;
- 11) Heat pumps integrated energy utilization;
- 12) Integration of heat pump systems with thermal storage systems;
- 13) Investigation of heat pump system components;
- 14) Solar-integrated heat pump technologies.

## **Important Dates**

Conference Registration: Aug 27, 2024;  
Welcome Reception: Aug 27, 2024;  
Opening Ceremony: Aug 28, 2024;  
Conference Reception Dinner: Aug 28, 2024;  
Plenary Lecture: Aug 28-30, 2024;  
Forum Report: Aug 28-30, 2024;  
Closing Ceremony: Aug 30, 2024.

## **Registration Fee**

---

Registration Type	On-line Registration (By June 15, 2024)	On-site Registration
Regular Participants	¥6000	¥7000
Members of the International Scientific Committee of the conference, Members of CAR; Private and corporate of the IIR	¥5000	¥6000
Students	¥4000	¥4500
Accompanying Persons	¥2500	¥3000

---

\*The Registration fees include coffee breaks, lunches, conference dinner, conference bag.

\*Accompanying fees include lunches, conference dinner.

## **Special Issue**

Special issues for the conference will be organized in Applied Energy, Advances in Applied Energy, Energy and International Journal of Refrigeration. Based on the evaluation of extended abstract, high-quality submission to the conference will be recommended to these journals for publication.

## **Conference Address**

Sheraton Shenzhen Futian Hotel.

Address: No.1 FuHua First Road, Futian District, ShenZhen City, GuangDong Province, China.

Phone Number: (+86) 0755-83838888.

## **Conference Language**

The official language used in the conference will be **English**.

## **Sponsorship**

A wide range of sponsorship packages are available which will enable participation of companies and organizations irrespective of size.

A guideline as to available standard packages can be found on the conference website. (<http://chpc2024.car.org.cn>).

## **Liaison**

Mr. Kai Zhang, Dr. Enyuan Gao,

Chinese Association of Refrigeration (CAR)

Tel: +86 10 68711615

Email: [chpc2024@car.org.cn](mailto:chpc2024@car.org.cn)

Website: <http://chpc2024.car.org.cn>