

First Circular

# ICOPE-2023

International Conference  
on Power Engineering-2023



May 21-26, 2023. Kyoto International  
Conference Center, Kyoto, Japan

Organized and Sponsored by  
The Japan Society of Mechanical Engineers

Co-organized by  
The Chinese Society of Power Engineering  
and  
The American Society of Mechanical Engineers



## Objective

The conference aims to provide a platform for promoting collaborations among professional societies and enhancing the technical exchanges in the power engineering community regarding thermal power, distributed energy system including heat and power utilization, energy storage, renewable energy, environmental issues including low-carbon, CCS (Carbon dioxide Capture and Storage), CCUS (Carbon dioxide Capture, Utilization and Storage) and waste to energy, and the other energy-related topics. Hydrogen is expected to be a key fuel for energy storage of variable renewable energy, low-quality coal utilization, and low-carbon energy systems. CCUS is attracting attention as a bridging technology. The conference will be held in Kyoto, a famous ancient city where an innovative CCS is demonstrating.

## Scope and Topics

0. Carbon Neutral Power Systems for Future World  
(ICOPE-ICONE Shared Track)
1. Centralized Power Generation Systems
2. Distributed Energy Systems
3. Renewable Energy
4. Hydrogen Energy Technologies
5. Turbines and Generators
6. Advanced Combustion Technologies
7. Thermal Hydraulics, Boiling and Condensation
8. Materials Engineering for Energy Systems
9. Operation, Maintenance and Diagnosis Technologies
10. Power Grid Stabilization Technologies
11. Environmental Protection
12. Techno-Socio-Economic Aspect of Energy System
13. Other Topics

## Opening Session

**Keynote** Dr. Kenji Yamaji (RITE)  
Dr. Keisuke Sadamori (IEA)

**Plenary** Mr. Tadasu Yotsuyanagi (Toshiba Energy Systems)  
Mr. Frank Michell (ASME)  
Prof. Jinyang Zheng (Zhejiang University)

## Steering Committee

Chair Takao Nakagaki (Waseda University)  
Co-Chairman Frank L. Michell (ASME)  
Jianhua Yan (Zhejiang University)  
Secretary General Yuso Oki (CRIEPI)  
Members Takayuki Torikai (Toshiba)  
Yoshiharu Amano (Waseda University)  
Kazuo Tanaka (Kawasaki Heavy Industries)

## Organizing Committee

Chairman Tadasu Yotsuyanagi (Toshiba Energy Systems)

Co-Chairman Kazumitsu Takanishi (KEPCO)  
Mamoru Ozawa (Kansai University)

Members (in alphabetical order)

Yutaka Abe	Yuichi Murai
Makoto Akai	Niro Nagai
Fumiteru Akamatsu	Tsuguhiko Nakagawa
Takuto Araki	Hiraku Nakahodo
Chaobin Dang	Koichiro Nakamura
Takashi Ekida	Toshihiko Nakata
Masafumi Fukuda	Kosuke Nishida
Yuichiro Goto	Akira Nishimura
Saburo Hara	Nobuya Nishimura
Masamichi Hashiguchi	Nobuya Obara
Tatsuya Hazuku	Naoki Oda
Katsuya Hirata	Yutaka Ohta
Masahumi Hirota	Masahiro Osakabe
Kenjiro Hokamura	Toshio Otaka
Akihiko Horibe	Kiyoshi Saito
Teruhisa Horita	Takashi Sasaki
Yasuyuki Ikegami	Toru Sawai
Ryoji Imai	Izuru Senaha
Jun Inumaru	Jiro Senda
Hideyoshi Ishida	Eiichi Shiga
Shiro Ishise	Naoki Shikazono
Yoshinori Itaya	Hiroshi Suzuki
Keiji Iwagami	Yutaka Tabe
Hiroshi Iwai	Kiyoshi Takano
Hisashi Iwasaki	Yasuyuki Takata
Yukitaka Kato	Yoichi Takeda
Chisachi Kato	Tetsuaki Takeda
Akimaro Kawahara	Masahiro Takei
Takumi Kawasaki	Tadashi Tanuma
Hiroshige Kikura	Takaharu Tsuruta
Fumiyoshi Kimura	Hisashi Umekawa
Atsuki Komiya	Tsutomu Wakabayashi
Ryoichi Komiyama	Tetsuya Wakui
Mitsuru Konno	Akira Yabe
Masanobu Kontani	Yuji Yabe
Nobuhiko Kubota	Akira Yamada
Hiroaki Masukawa	Kenji Yamaji
Hiroaki Matsumoto	Hiroshi Yamanobe
Yukihiko Matsumura	Toshihiko Yasuda
Hisato Minagawa	
Akio Miyara	
Masanori Monde	
Shoji Mori	
Tetsuo Munakata	

## Conference Schedule

May 21, Sunday:	Registration and Welcome Reception
May 22, Monday:	Opening Address and Plenary Lecture
May 23, Tuesday:	Technical Session
May 24, Wednesday:	Technical Session Official Conference Banquet
May 25, Thursday:	Technical Session
May 26, Friday:	Technical Tour
May 21-26:	Exhibition

## Technical Tour

Technical tour is held on May 26 of sixth day of the conference -visiting CO<sub>2</sub> Capture Demonstration Plant (NEDO,RITE,KHI) at Maizuru Power Station (KEPCO), PR Facility of Nuclear Power, ELGAIA OHI (KEPCO) at Uminpia Ohi. In addition, you can choose the ICONE30 technical tour on the same day. Technical tour fee is 10000 JPY.



Maizuru Power Station

## Exhibition

The exhibition is held on the conference venue. Various exhibition booths of leading companies in the energy and environmental industries wait for your visit.

## Proceedings

All accepted papers will be distributed to participants in the Conference Proceedings that will be available at the Conference site. Some presentation will be recommended as a journal paper for Mechanical Engineering Journal or Waste Disposal & Sustainable Energy.

## Conference Fees

Participation is open to all persons interested in this conference. Please note that all persons intending to attend the ICOPE-2023 must complete the registration and should register. Pre-registration is strongly recommended for all participants. Every presenter must make Pre-registration with the applicable conference fees **by March 10, 2023**, to guarantee inclusion of the paper in the program. Online registration system will be available early January, 2023 on ICOPE-2023 official website, <https://www.icope-2023.org/>.

### Conference registration fees

#### Participants (Yen, JPY)

	By March 10, 2023 Early bird	After March 10, 2023 Normal Registration
JSME Member (*)	JPY 100,000	JPY 120,000
Non-member	JPY 120,000	JPY 140,000
Student (member)	JPY 35,000	JPY 45,000
Student (non-member)	JPY 55,000	JPY 65,000

(\*) includes member of cooperative societies

#### Related fee

	Participant	Accompanying person
Welcome Reception	Free of charge	JPY 5,000
Conference Banquet	JPY 5,000	JPY 10,000
Technical tour	JPY 10,000	JPY 10,000

Registration fees will cover the welcome reception of participant.

\*If you need to apply for a VISA, please pay the registration fee as well as the VISA processing fee. After confirming your payment, we will contact and send you the documents for the VISA application.



## Location and Venue

### Kyoto City

The ICOPE-2023 will be held in Kyoto, a world-wide famous old and new city in Japan. The city is located in the Kansai area on the northeast of Osaka. It is one of the oldest municipalities in Japan and considered as a cultural capital and a major tourist destination.

### Kyoto International Conference Center

The conference venue is Kyoto International Conference Center.

<From Airport to Kyoto Station>

Travel from Kansai International Airport (KIX) to Kyoto Station on the Express Haruka train in 75 minutes.



<From Kyoto Station to ICC Kyoto>

Take the Karasuma Subway Line from Kyoto Station to Kokuzaikaikan Station in 20 minutes.

### Official Conference Banquet

The official conference banquet is held at to the conference venue.

## Contact

All countries except for China: ICOPE-2023 Secretariat

E-mail: [icope-2023@jsme.or.jp](mailto:icope-2023@jsme.or.jp)

China: ICOPE-2023 Secretariat in China (Prof. Xiaoqing Lin, Zhejiang University)

E-mail: [linxiaoqing@zju.edu.cn](mailto:linxiaoqing@zju.edu.cn)

### ICOPE-2023 Official Website

<https://www.icope-2023.org/index.html>