



ICOPE-2023

*International Conference
on Power Engineering*

Call for Papers

International Conference on Power Engineering – 2023

May 21st - 26th, 2023

Kyoto International Conference Center, Kyoto, Japan

Organized and sponsored by

The Power and Energy System Division of
The Japan Society of Mechanical Engineers

Co-Organized by

The Power Division of
The American Society of Mechanical Engineers

and

Chinese Society of Power Engineering

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

ICOPE will cover both fundamental and applied topics in power engineering, including:

- 1. Centralized Power Generation Systems**
All advanced cycles such as A-USC, MACC, Triple Combined Cycle, IGCC, IGFC, Allam Cycle, Hybrid Cycle
- 2. Distributed Energy Systems**
Combined Heat and Power (Co-generation system), Fuel Cells, Internal/External Combustion Engines, Organic Rankine Cycle, Smart Grid, Microgrid, Heat Pump Systems, Waste Heat Recovery
- 3. Renewable Energy**
Geothermal Energy, Wind Turbines, Tidal Power Generation, Solar Power
- 4. Hydrogen Energy Technologies**
Hydrogen Production, Transportation and Utilization System, Fuel Cell for Automobile
- 5. Turbines and Generators**
Gas Turbines, Steam Turbines, Hydraulic Turbines and Generators
- 6. Advanced Combustion Technologies**
All Combustion technologies, Slag Management, Oxy-fuel Combustion
- 7. Thermal Hydraulics, Boiling and Condensation**
CFD, Experimental Techniques
- 8. Materials Engineering for Energy Systems**
New Metal Alloys for Boilers, Materials for Turbine Blades and Governor Valves
- 9. Operation, Maintenance and Diagnosis Technologies**
Non-destructive Inspection, Measurement Techniques, Robotics, IoT-AI

10. Power Grid Stabilization Technologies

Energy Storage, Demand Response, Load Following and Leveling

11. Environmental Protection

Carbon Capture, Utilization and Storage (CCUS), Gas and Water Aftertreatment, Waste to Energy

12. Techno-Socio-Economic Aspect of Energy System

Techno-Economic Analysis, Safety and Security, Regulations and Standards

13. Other Topics

Other Topics Related to Power Engineering

Steering Committee

Chair	Prof. Takao Nakagaki , <i>Waseda University</i>
Co-Chair	Mr. Frank L. Michell , <i>Chair of the ASME Clean Energy Technology Group</i> Prof. Jianhua Yan , <i>Zhejiang University</i>
Members	Mr. Takayuki Torikai , <i>Chair of General Affairs Committee Toshiba Energy Systems & Solutions Corporation</i> Prof. Yoshiharu Amano , <i>Chair of Scientific Committee Waseda University</i> Mr. Kazuo Tanaka , <i>Chair of Planning Committee Kawasaki Heavy Industries, Ltd.</i>
Secretary General	Dr. Yusuo Oki , <i>Central Research Institute of Electric Power Industry</i>

Abstract Submission

Authors willing to present their papers should submit **400 words abstracts in English** via the conference website (<https://www.icope-2023.org/>). Initial screening will be based on the abstracts. Authors should make their **pre-registration until March 10, 2023**, and to present their papers in oral sessions individually.

Important Dates for Authors

September 21, 2022	400 words abstract due
October 26, 2022	Notification of abstract acceptance
November 25, 2022	Extended abstract due
February 8, 2023	Notification of extended abstract acceptance
March 10, 2023	Pre-registration, at least one of the authors with registration fee due
March 31, 2023	Final manuscripts due

The dates are subject to change; please check the conference website.

All extended abstracts will be peer reviewed in format along with template. All accepted extended abstracts will be accessible to registered participants on the Online Program web page. Also, the accepted papers will be recommended for publication in the **Mechanical Engineering Journal** or **Waste Disposal & Sustainable Energy** upon reviewers' recommendation.

Conference website

Detailed information about the conference, including location, travel, accommodation, abstract submission, proceedings, venues, registration, etc., can be found at the conference website: <https://www.icope-2023.org/>

Contact

If you have any questions, please don't hesitate to contact the following address.

All countries except for China: ICOPE-2023 Secretariat

E-mail: icope-2023@jsme.or.jp

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

E-mail: linxiaoqing@zju.edu.cn

