



ICOPE-2021

*International Conference
on Power Engineering*

Call for Papers

International Conference on Power Engineering – 2021

October 17th -October 21st, 2021

Kobe International Conference Center, Kobe, 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 power utilization and energy storage, renewable energy, environmental issues including low-carbon, CCS, CCUS and waste to energy, and the other energy related topics. Hydrogen is expected to be a key fuel for energy storage of natural energy, low-quality coal utilization, and low-carbon energy systems. The conference site, Kobe, is now promoting the Hydrogen Smart City Kobe Initiative.

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, Micro Grid, Heat Pump Systems, Unused Heat Regeneration

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 Technology

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, Turbine Blades and Governor Valves

9. Operation, Maintenance and Diagnosis Technologies

Non-destructive Inspection, Measurement Techniques, Robotics, IoT-AI

10. Power Grid Stabilization Technology
Demand Response, Load Following and Leveling, Energy Storage
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. Hitoshi Asano , <i>Kobe University</i>
Co-Chair	Mr. Frank L. Michell , <i>Past Chair of ASME Power Division</i> Prof. Jianhua Yan , <i>Zhejiang University</i>
Members	Dr. Masahide Kazari , Chairman of General Affairs Committee <i>Kawasaki Heavy Industries, Ltd.</i> Prof. Ryosuke Matsumoto , Chairman of Scientific Committee <i>Kansai University</i> Dr. Tsubasa OHSHIMA , Chairman of Planning Committee <i>Hitachi Zosen Corporation</i>
Secretary General	Prof. Hideki Murakawa , <i>Kobe University</i>

Abstract Submission

Authors willing to present their papers should submit **400 words abstracts in English** via the conference website (<https://www.jsme.or.jp/pes/ICOPE-2021/>). Initial screening will be based on the abstracts. Authors should make their **pre-registration until July 31, 2021** and to present their papers in oral sessions individually.

Important Dates for Authors

March 31, 2021	400 words abstract due
April 30, 2021	Notification of abstract acceptance
June 30, 2021	Extended abstract due
July 31, 2021	Notification of extended abstract acceptance
July 31, 2021	Pre-registration of at least one of the authors with registration fee due
August 31, 2021	Final manuscript of extended abstract due

The dates are subject to change, please check ICOPE-2021 website.

All extended abstracts will be peer reviewed. All accepted papers will be published in the Conference Proceedings. Also the accepted papers will be endorsed for publication in the **Mechanical Engineering Journal** and **Waste Disposal & Sustainable Energy** on reviewers' recommendation.

Detailed information about the conference, including location, travel, accommodation, abstract submission, proceedings, venues, registration, etc. can be found at the website of the ICOPE-2021 <http://www.jsme.or.jp/pes/ICOPE-2021/>

Contact

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

All countries except China

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China: Prof. Fei Wang & Dr. Xiaoqing Lin, *Zhejiang University*

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