



# ICOPE-2021

*International  
Conference on Power  
Engineering*

## Call for Papers

International Conference on Power Engineering – 2021

October 17<sup>th</sup> -October 21<sup>st</sup>, 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 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, 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	<b>Prof. Hitoshi Asano</b> , <i>Kobe University</i>
Co-Chair	<b>Mr. Frank L. Michell</b> , <i>Chair of the ASME Energy Generation and Storage Technology Group</i> <b>Prof. Jianhua Yan</b> , <i>Zhejiang University</i>
Members	<b>Dr. Masahide Kazari</b> , <i>Chair of General Affairs Committee Kawasaki Heavy Industries, Ltd.</i> <b>Prof. Ryosuke Matsumoto</b> , <i>Chair of Scientific Committee Kansai University</i> <b>Dr. Tsubasa OHSIMA</b> , <i>Chair of Planning Committee Hitachi Zosen Corporation</i>
Secretary General	<b>Assoc. Prof. Hideki Murakawa</b> , <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

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

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 <https://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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