

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

The 5th AIGE/IIETA International Conference and 14th AIGE 2020 Conference

on "Energy Conversion, Management, Recovery, Saving, Storage
and Renewable Systems" will be held in
Ancona, Italy on June 11 – 12, 2020

ABOUT THE CONFERENCE

The **5th AIGE/IIETA International Conference** and **14th AIGE 2020 Conference** on "**Energy Conversion, Management, Recovery, Saving, Storage and Renewable Systems**" is organized under the joint auspices of the AIGE and IIETA with the aim of providing technical information to their members and to the scientific and industrial community at large.

The joint Conferences shall foster a binding platform for researchers from universities, research institutions and industries as well as students to network, learn more and share their knowledge. They will pursue the goal of providing a forum for the exposure and the exchange of technical/scientific information.

The joint Conferences will give the opportunity to discuss the state of the art and to present experimental, analytical and numerical results in Energy Conversion Systems, in Energy Management, in Energy Recovery Systems, in Energy Saving Techniques, Energy Storage Systems and Renewable Systems, with a particular attention to the engineering, environmental and economic aspects.

The following list of topics is not intended to be exhaustive, but rather to indicate topics that fall within the aim of the conference.

1 - Thermodynamics and Heat Transfer:

Heat Exchangers – Conduction, Convection and Radiation Heat Transfer - Boiling Heat Transfer - Heat Transfer in Fission and Fusion Nuclear Facilities – Exergy Analysis - Entropy Generation Minimization – Heat and Mass Transfer Processes – Thermodynamic Modelling and Optimization – Computational Heat Transfer and Fluid Dynamics -

2 - Energy Conversion and Management:

Analysis and optimization of energy processes - Cogeneration and combined heat, power and refrigeration - Combustion improvements and combustion of new fuels - Industrial and domestic use of energy - Energy conversion and storage – Energy Efficiency in Buildings – Improvement of Indoor Air Quality – Energy Saving in Transportations – Power Plants and Equipment – Refrigeration and Air-Conditioning – Low Enthalpy Energy Sources – Energy Harvesting

3 - Energy and Environmental Policy:

Energy Analysis - Energy Planning and Management - Energy supply security – Climate Change Politics – Energy Scenarios – Energy Forecasting modeling - Integrated Energy Systems - Optimal Use of Energy Resources

4 - Power Systems and Networks:

Electricity Supply and Demand: Transmission, Distribution, Network Operation, Data Monitoring and Control Systems– District Energy networks – Natural Gas Supply – Power Plants: Automation Control and Metering - Smart Grids – Nuclear Power plants - Hydrogen Production Technology - Fuel Cells

5 - Renewable Energy Sources:

Wind Energy - Solar Energy: Thermal and Photovoltaic systems - Hydroelectric power - Biomass and Bioenergy - Geothermal Energy Systems – Tide and Waves Energy

LOCATION

Faculty of Engineering – Marche Polytechnic University, Ancona

IMPORTANT INDICATIVE DATES

Abstracts submission deadline **March 6, 2020**

Abstracts acceptance **March 20, 2020**

Draft papers submission deadline **April 10, 2020**

Final revised paper acceptance **April 30, 2020**

Early registration deadline **May 3, 2020**

AWARDS

3 Certificates of Merit will be assigned during the Conference, to be devoted to young graduates, PhD and post PhD students and young researchers, who have carried out significant research work on the Conference issues and present their results with a paper, in oral or poster sessions: 1 for young graduates who present the results of their thesis, 1 for PhD and post-PhD students provided they are under 32 years old, 1 for the best paper presented by young researchers under 35 years old.

CONFERENCE CHAIRS

Renato Ricci, Università Politecnica delle Marche, Italy (Organizer)

Valerio D'Alessandro, Università Politecnica delle Marche, Italy (Organizer)

Enrico Lorenzini, Università di Bologna, AIGE President, IETA Directive Board Component

Andrew Zhang, International Information and Engineering Technology Association, IETA, Canada

LOCAL ORGANIZING COMMITTEE

Fabio Polonara, Massimo Paroncini, Costanzo Di Perna, Giovanni Di Nicola, Paolo Principi, Alessia Arteconi, Giorgio Passerini, Francesco Corvaro, Barbara Marchetti, Gabriele Comodi, Flavio Caresana, Leonardo Pelagalli, Luca Giammichele, Michela Mengaroni, Sara Carbonari, Antonella Rossi, Daniele Ciccarelli, Maurizio Spegni, Gabriele Gabrielli