

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

The 4th AIGE/IIETA International Conference and 13th AIGE 2019 Conference

on "Energy Conversion, Management, Recovery, Saving, Storage
and Renewable Systems" will be held in
Matera , Italy on June 13 – 14, 2019

ABOUT THE CONFERENCE

The **4th AIGE/IIETA International Conference** and **13th AIGE 2019 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 - 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

2 - Energy Planning and Policy:

Economic and Policy Issues - Energy Analysis - Energy Planning and Energy Management - Energy supply security - Environmental, Social and Economic Impacts of Energy Policies and Usage - Overview of the Global and Regional Energy Scene - Problems of Modeling and Forecasting - Integrated Energy Systems - Optimal Use of Energy Resources - Energy and Environmental Regulation.

3 - Power Systems and Networks:

Electricity Supply and Demand – Transmission – Distribution – Network Operation – Data Monitoring and Control Systems – Power Grids – District Heating and Cooling – Natural Gas Supply – Power Plants Automation and Control - Power System Metering - Smart Transmission Grids -

4 - Thermodynamics and Heat Transfer:

Heat Exchangers – Conduction, Convection and Radiation 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 Fluid Dynamics -

5 - Renewable and Nuclear Energy Sources:

Biomass and Bioenergy - Geothermal Energy Systems - Sustainable Energy Systems - Wind Energy - Solar Thermal and Photovoltaic – Concentrating Solar Power – Waves Energy - Nuclear Power Plants – Hydro Power – Hydrogen Production Technology - Fuel Cells – Tide and Ocean Energy

LOCATION

Campus of University of Basilicata, Matera

IMPORTANT INDICATIVE DATES

Abstracts submission deadline **February 28, 2019**

Draft papers submission deadline **April 4, 2019**

Final revised paper acceptance **April 30, 2019**

Early registration deadline **May 10, 2019**

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

Nicola Cardinale, Università della Basilicata, Italy (Organizer)

Pietro Stefanizzi, Politecnico di Bari, Italy (Organizer)

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