

# The 7th AIGE/IIETA International Conference and 16th AIGE 2022 Conference

on "Energy Conversion, Management, Recovery, Saving, Storage  
and Renewable Systems"

will be held in **Parma, Italy on June 8 - 9, 2022**



## FIRST ANNOUNCEMENT AND CALL FOR PAPERS

### ABOUT THE CONFERENCE

The **7th AIGE/IIETA International Conference** and **16th AIGE 2022 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

## **6 – Energy in Food processing:**

Novel thermal management techniques in food industry- Environmental-friendly applications in food industry - Energy efficiency in food industry - Analysis and optimization of energy processes in food industry.

## **LOCATION**

Aule K8 – K9 – K10 – Università di Parma, Polo Didattico Kennedy, Vicolo Santa Maria, 11 - Parma.

## **IMPORTANT INDICATIVE DATES**

Abstracts submission deadline **March 11, 2022**

Abstracts acceptance **March 28, 2022**

Full papers submission deadline **April 29, 2022**

Early registration deadline **May 9, 2022**

## **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**

**Sara Rainieri**, Università di Parma, Italy (Organizer)

**Giorgio Pagliarini**, Università di Parma, Italy (Organizer)

**Fabio Bozzoli**, Università di Parma, Italy (Organizer)

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

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

## **WEBISTE**

<http://www.aige2022.unipr.it>

## **CONTACTS**

[aige2022@unipr.it](mailto:aige2022@unipr.it)

## **ORGANIZING SECRETARIAT**



[Franco@mvcongressi.it](mailto:Franco@mvcongressi.it)