

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

2nd AIGE/IIETA 2017 International Conference and 11th AIGE 2017 Conference

on "Energy Conversion, Management, Recovery, Saving, Storage
and Renewable Systems" to be held in
Genoa (Italy) on June 12 – 13, 2017

ABOUT THE CONFERENCE

The **2nd AIGE/IIETA International Conference** and **11th AIGE 2017 Conference** and the 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, Energy Management, Energy Recovery Systems, 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 Storage – Energy Savings
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 - Renewables 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

The Conference will be held at University of Genoa, Italy, in the framework of the Polytechnic School, at the Department of Architecture, *Aula Benvenuto*, Stradone S. Agostino, 37 – (I)16123 GENOA.

Genoa is one of the more ancient Italian settlements, dating from the 6th and 5th centuries BC, going through the Roman age and birth city of outstanding pioneers such as Cristoforo Colombo (navigator and explorer, 1451-1506) or Nicolò Paganini (violinist, guitarist, and composer, 1782 – 1840) . Nowadays it is the 5th largest Italian city and capital of the Liguria region.

Genoa is located in the north-west part of Italy, and is connected to Rome by train (in about four hours), Milan (two hours) and by plane to many European cities.

Spring is the ideal season to visit the city thanks to its mild temperature (22 to 26 °C, 72 - 79 °F).

TOURS SUGGESTIONS

Genoa (in Italian, Genova) is a historical port city having a long history as a rich and powerful trade centre. However, with its multitude of hidden gems behind cozy alleyways, excellent cuisine (notably fish and seafood), renovated old port, beautiful sights (including one of Europe's biggest aquariums and most ancient historical old-town centers), represents an enticing place which is gradually becoming more included in the touristic market. With pastel-colored terracotta-roofed houses, artistic churches, lovely seaside villas, and also several luxurious boutiques, the city is worth to be visited and a good base to explore the Italian Riviera and world famous places like Portofino and the Cinque Terre.

IMPORTANT DATES

Abstracts submission deadline **20th Feb, 2017**

Notification of acceptance until **10th March, 2017**

Final papers submission deadline **10th April, 2017 – Final acceptance 30th April 2017**

Early registration deadline: **5th May 2017, full Fee 350 € (student fee 220 €), after this data the full fee is 400 € (student fee 250 €). Guest fee 100 €. The full fee includes Gala dinner, buffet and coffee breaks. The student fee does not include gala dinner.**

A paper will not be included in the conference proceedings if the author does not register to the conference before **10th May 2017**.

The accepted papers will be collected in the webpage available for the Conference but only the papers presented at the Conference will be reviewed and published in the Proceedings, which will be abstracting and indexing in Scopus, Ei Compendex and EBSCO. Authors of high quality papers will be invited to submit them for publication in a special issue of the International Journal of Heat and Technology.

PAPERS PRESENTATION

Papers will be presented either standing or poster or both. There is no differences between poster and oral presentation as for the inclusion in the proceedings and their eligibility to be invited for publication in the special issue.

Authors are requested to indicate which form of presentation they suggest, keeping in mind that interdisciplinary, broad knowledge papers will be preferred for oral presentation.

CONFERENCE CHAIRS and INTERNATIONAL SCIENTIFIC COMMITTEE will be defined in the second announcement

Local Scientific Advisory Board (preliminary)

A local Scientific Advisory board (LSAB) has been settled with experts of the Polytechnic School in each of the main conference subjects, in order to guarantee a high level of the papers and a proper scientific editing of the technical sessions:

Silvano Cincotti, Marco Fossa, Stefano Massucco, Mario Misale, Marco Raberto, Federico Scarpa, Corrado Schenone, Federico Silvestro.

ORGANIZING COMMITTEE (DIME - University of Genoa, Polytechnic School)

Vincenzo Bianco, Davide Borreani, Francesco Devia, Stefano Lazzari, Guglielmo Lomonaco, Annalisa Marchitto, Antonella Priarone, **Luca A. Tagliafico.**

PRELIMINARY CONTACTS

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