

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

The 3rd AIGE/IIETA International Conference and 12th AIGE 2018 Conference

on "Energy Conversion, Management, Recovery, Saving, Storage
and Renewable Systems" will be held in
Reggio Calabria-Messina, Italy on June 14 – 16, 2018

ABOUT THE CONFERENCE

The **3rd AIGE/IIETA International Conference** and **12th AIGE 2018 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

Mediterranea University of Reggio Calabria

TOURS SUGGESTIONS

Magna Grecia Museum, Aragonese Castle, Palace of Culture *Pasquino Crupi*, Picture Gallery, Scilla, Messina, Taormina.

IMPORTANT DATES

Abstracts submission deadline **February 15, 2018**

Notification of abstract acceptance until **March 4, 2018**

Draft papers submission deadline **March 31, 2018**

Final revised paper acceptance **April 28, 2018**

Early registration deadline **May 8, 2018**

FEES

before May 8, 2018 the full fee is 350 € (young graduates, PHD and post PHD students fee 220 €), after this date 400 € (young graduates and PHD student fee 250 €). Guest fee 100 €. One day fee (only audience) 100 €. The full fee and guest fee also include gala dinner, buffet and coffee breaks. One-day registration do not include gala dinner (extra fee 50 €).

Each extra paper by a registered author will be charged of an extra fee of 100 €.

Special fees are available for industrial sponsorship and exhibitions.

Fees do not include V.A.T., where applicable.

PAPER PUBLISHING

The paper will not be included in the conference proceedings if the authors have not registered at the Conference.

Only the papers presented at the Conference will be reviewed and published in a special issue of an International Journal, Scopus indexed.

Authors of 10 high quality papers will be invited to submit their paper in a completed form for peer review and publication in the *International Journal of Heat and Technology*.

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

Giuseppe Cannistraro, Università di Messina, Italy (Organizer)

Salvatore Freni, CNR-ITAE, Messina, Italy (Organizer)

Matilde Pietrafesa, Università Mediterranea di Reggio Calabria, Italy (Organizer)

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

Oronzio Manca, Università degli Studi della Campania Luigi Vanvitelli, Aversa (CE), Italy

Luca A. Tagliafico, Università degli Studi di Genova, Italy

David Williams, International Information and Engineering Technology Association, IIETA, Canada.

INTERNATIONAL SCIENTIFIC COMMITTEE

The International Scientific Committee will be communicated in the next notice

LOCAL SCIENTIFIC ADVISORY BOARD

Mauro Cannistraro, Antonio Galvagno, Concettina Marino, Antonino Nucara, Valeria Palomba, Antonio Piccolo, Alessio Sapienza.

ORGANIZING COMMITTEE (*Mediterranea University of Reggio Calabria, Department of Civil Engineering, Energy, Environment and Materials - Messina University Department of Civil Engineering, CNR-ITAE - Messina*)

Giuseppe Cannistraro, Mauro Cannistraro, Fabrizio Freni, Salvatore Freni, Antonio Galvagno, Concettina Marino, Antonino Nucara, Valeria Palomba, Antonio Piccolo, Matilde Pietrafesa, Alessio Sapienza, Gaetano Squadrito.