

## ANNOUNCEMENT AND CALL FOR PAPERS

# 2nd AIGE/IETA 2017 International Conference and 11th AIGE 2017 National Conference

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

### ABOUT THE CONFERENCE

The **2nd AIGE/IETA 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 IETA 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 and Renewable Systems with a particular attention to innovation in 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 - Renewable and Nuclear Energy Resources:**

Biomass and Bioenergy - Geothermal Energy Systems - Sustainable Energy Systems - Wind Energy - Solar Thermal and Photovoltaic – Concentrating Solar Power – Waves Energy - Nuclear Systems – 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 Architecture and Design (DAD), *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 to 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 is a good base to explore the Italian Riviera and world famous places like Portofino and the Cinque Terre.

#### **IMPORTANT DATES**

Abstracts submission deadline **February 20, 2017** - Notification of acceptance until **February 28, 2017**

Draft papers submission deadline **March 31, 2017**

**Final revised paper acceptance April 28, 2017**

Early registration deadline **May 8, 2017**

**FEES:** before **May 8, 2017** the full fee is 350 € (student fee 220 €), after this data the full fee will be 400 € (student fee 250 €). Guest fee 100 €. One day fee (only audience) 100€. The full fee and guest fee include also Gala dinner, buffet and coffee breaks.

The reduced fees (students, one-day registration) do not include gala dinner (extra fee 50€).

Special fees are available for industrial sponsorship and exhibitions.

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

A paper will not be included in the conference proceedings if the author does not register to the conference before **10th May 2017**. Each extra paper by a registered author will be charged of an extra fee of 100€.

The accepted papers will be collected and published online 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 abstracted and indexed in Scopus, Ei Compendex and EBSCO. The proceedings will be available at the conference in digital format (USB stick). Authors of high quality papers will be invited to submit their work in a completed form for peer review and publication in major journals, such as Int. J. of Heat and Technology.

## PAPER PRESENTATIONS AND AWARDS

Papers will be presented either oral or poster. There is no difference 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. Authors are also requested to suggest the topic relevant for their paper. Final arrangement will be on Organizing Committee decision.

## AIGE-IIETA 2017 AWARDS

**During the conference 5 special AIGE-IIETA AWARDS for young researchers will be assigned to highly qualified research outcomes and best paper presentation.**

AIGE (Italian Association of Energy Management) and IIETA (International Information Technology and Engineering Association) on the occasion of the 2nd AIGE -IIETA 2017 International Conference and 11th AIGE 2017 National Conference on "Energy Conversion, Management, Recovery, Saving, Storage and Renewable Systems" to be held in Genoa (Italy), on 12-13 June 2017, to encourage and support studies and research in the energy sector and in particular on management, environmental, territorial and socio-economic related to consumption energy, offers **5 AWARD CERTIFICATES OF MERIT**, to be devoted to young graduates, PhD students and young researchers who have carried out significant research work on the conference issues and present their results at the conference.

### Requirements and selection process

- 1) Awards are reserved to young graduates, PhD students, post doctoral fellows and young researchers, provided they are under 32 years old.
- 2) All young researchers can apply for the Award, sending an e-mail to [aige-iieta2017@unige.it](mailto:aige-iieta2017@unige.it) with the subject: *AIGE-IIETA 2017 AWARDS*. The application e-mail must include: paper title, Name and surname of the candidate, his/her academic position, the date of birth, the statement that the candidate will present personally (be it in oral or poster form) the paper at the conference.
- 3) Results are to be presented personally by the candidate, in oral or poster sessions, with a paper at the conference.
- 4) The Awards will be assigned to the young participants by means of an evaluation performed during the conference by an Award Board including AIGE President (Prof. Enrico Lorenzini), AIGE vice- President (Prof. Oronzio Manca) and Conference Chairs (Prof. Luca A. Tagliafico and Prof. Mark Magennis), based on the quality of the paper, the relevance of the subject and the quality of presentation (be it oral or poster).
- 5) The AWARD Certificates will be delivered to the winners in a short ceremony to be held during the conference.

## CONFERENCE CHAIRS

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

**Enrico Lorenzini**, Università di Bologna, Alma Mater Studiorum, Italy; **Mark Magennis**, International Information and Engineering Technology Association, Canada.

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

## INTERNATIONAL SCIENTIFIC COMMITTEE

**Pierangelo Andreini** Politecnico di Milano, Italy; **Ciro Aprea**, Università degli studi di Salerno, Italy; **Vincenzo Bianco**, Università degli Studi di Genova, Italy; **Said Bouabdallah**, University of Lghouat, Algeria; **Giuliano Cammarata**, Università degli Studi di Catania, Italy; **Giuseppe Cannistraro**, Università degli Studi di Messina, Italy; **Nicola Cardinale**, Università degli Studi della Basilicata, Italy; **Franco Cotana**, Università degli Studi di Perugia; **Mario Antonio Cucumo**, Università della Calabria, Italy; Maurizio Cumo Università La Sapienza, Roma, Italy; **Massimo Dentice d'Accadia**, Università degli studi Federico II, Italy; **Livio De Santoli**, Università "La Sapienza",

Roma, Italy; **Paolo Di Marco**, Università degli Studi di Pisa, Italy; **Giovanni Guglielmini**, Università degli Studi di Genova, Italy; **Hamzeh Mustafa Mohammad Duwairi**, University of Jordan, Jordan; **Alberto Fichera**, Università degli Studi di Catania, Italy; **Hong Hu**, University of Florida, USA; **Bassam Hussein Salman**, University of Nevada, USA; **Stefano Lazzari**, Università degli Studi di Genova, Italy; **Enrico Lorenzini**, Università di Bologna, Alma Mater Studiorum, Italy; **Anna Magrini**, Università degli Studi di Pavia, Italy; **Oronzio Manca**, Università degli Studi della Campania Luigi Vanvitelli, Italy; Marco Carlo Masoero, Politecnico di Torino; Italy; **Mohammad Mansur Rahman**, Sultan Qaboos University, Oman; **Gino Moncada Lo Giudice**, Università “La Sapienza”, Roma, Italy; **Luigi Marletta**, Università degli Studi di Catania, Italy; **Nicola Massarotti**, Università degli Studi di Napoli "Parthenope", Italy; **Rita Mastrullo**, Università degli studi Federico II, Italy; **Alfonso Niro**, Politecnico di Milano, Italy; **Matilde Pietrafesa**, Università Mediterranea di Reggio Calabria, Italy; **Stefano Piva**, Università degli Studi di Ferrara, Italy; **Fabio Polonara**, Università Politecnica delle Marche, Italy; **Zhaogang Qi**, Shanghai Jiao Tong University, China; **Maurizio Sasso**, Università degli studi del Sannio, Italy; **Federico Scarpa**, Università degli Studi di Genova, Italy; **Gauri Shanker Seth**, Indian School of Mines, India; **Sergio Sibilio** Università degli Studi della Campania Luigi Vanvitelli, Italy; **Pietro Stefanizzi**, Politecnico di Bari, Italy; **Luca A. Tagliafico**, Università degli Studi di Genova, Italy; **Paolo Tartarini**, Università degli studi di Modena e Reggio Emilia, Italy; **Hanfei Tuo**, R&D Research Center, Praxair, Inc, USA; **Haiyan Wang**, China University of Mining & Technology-Beijing, China; **Yindi Zhang**, Yangtze University, China.

#### LOCAL SCIENTIFIC ADVISORY BOARD

A local Scientific Advisory board 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 and arrangement of the technical sessions:

**Silvano Cincotti, Marco Fossa, Guglielmo Lomonaco, Stefano Massucco, Mario Misale, Marco Raberto, Corrado Schenone, Federico Silvestro.**

#### ORGANIZING COMMITTEE (DIME & DAD, Polytechnic School, University of Genoa)

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

#### CONTACTS

##### For academic matters (abstracts, papers,...)

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##### For Non Academic matters:

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