

## SCOPE AND OBJECTIVES OF THE CONFERENCE

Aicarr International Conference of 2011, now at its 48<sup>th</sup> edition, will take place in an exclusive selected spot far from any exhibition events with the specific aim to allow participants to take full advantage from all its sessions and relevant topics.

The guiding themes of the Conference are the energy sustainability and innovations on buildings and their systems with a specific reference to the existing ones.

The importance of such themes is drawn by the consideration that in Italy there are more than 20 million dwellings, which in the best cases are equipped with scarce insulation, heating and air conditioning systems of low quality and largely inefficient.

The same consideration can be made for the tertiary sector buildings often provided with obsolete control systems that generate just very high energetic costs, usually accepted with negligent carelessness as they were inescapable events of current life.

Hence the urgent need to discuss in depth all aspects which involve the energy use in the built environment. In the Conference the topic of renewable resources will find ample space for discussion in the frame of environmental sustainability; correct management and maintenance of the building/plant system, a theme often disregarded, will be also covered. A separate session will be devoted to the building automation, another topic of ever increasing interest due to the important aspects of system controls for the entire building.

The plenary session will see key speakers of international reputation.

The technical sessions will include professionals and manufacturer representatives who will discuss on equipment, systems and innovative components. With this occasion manufacturers will have an opportunity to present their innovations to an audience not distracted by other collateral events.

## USEFUL INFORMATION

### CONFERENCE LOCATION

#### Grand Hotel Dino - Baveno

From Grand Hotel Dino, equipped with all comforts and surrounded by pretty gardens, guests can enjoy a splendid view on Lake Maggiore; climate is usually mild.

Villa Taranto e Villa Pallanza gardens as well as picturesque villages along the lake shore, contributed to make Lake Maggiore one of the preferred spots of international tourism.

More information can be found on:

<http://www.comune.baveno.vb.it/italiano.pdf>

### LANGUAGE

Official Languages of the Conference are Italian and English. Abstracts and papers may be presented in either language at Author's choice.

### CONFERENCE RULES

Rules of the Conference for the Authors are published on Aicarr website at:

*Convegni > Area Relatori > Regole Congressuali.*

### CONFERENCE SECRETARIAT

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[www.aicarr.org](http://www.aicarr.org)

## CONFERENCE PATRONAGE



# 48<sup>th</sup>

# Aicarr International Conference

## Call for Papers

## Energy refurbishment of existing Buildings - which solutions for an integrated System: Envelope, Plant, Control

SEPTEMBER 22<sup>nd</sup> AND 23<sup>rd</sup>, 2011  
BAVENO-LAKE MAGGIORE



Renato Lazzarin (Chairman of the Committee)  
 Michele Vio (President elected AICARR)  
 Filippo Busato  
 Carmine Casale  
 Antonio Catalano  
 Sergio Croce  
 Didier Coulomb (IIF-IIR)  
 Giuliano Dall'O'  
 Francesca Romana d'Ambrosio  
 Livio Mazzarella  
 Marco Noro  
 Valentina Raisa  
 Piercarlo Romagnoni  
 Michael Schmidt (REHVA)  
 Thomas Watson (ASHRAE)  
 Guido Poli (General Secretary)  
 Luca Alberto Piterà (Technical Secretary)

**PLENARY SESSION**

The Plenary Session will cover:

- THE PROBLEM OF HEAT ISLANDS IN URBAN ARE
- HOW TO PRODUCE AND FINANCE A SUSTAINABLE BUILDING
- MARKET OPPORTUNITIES IN BUILDING RE-QUALIFICATIONS
- EXPERIENCES ON BUILDING RETROFITTING: PROBLEMS AND SOLUTIONS

**1. Energy Sustainability and Envelope Innovations in Existing Buildings**

Active envelope, solar screens and protections, passive envelope, non-sustainable architecture, design tools, energy certification experiences, impact on the ambient, the role of ventilation, high energy consuming buildings, low energy consuming buildings.

**2. Integration of Renewable Energies in Existing Buildings: Architectural and System Aspects**

The plant/building system with high integration degree, solar air conditioning, heat pumps, ground source heat pumps, solar heating, photovoltaic systems, use of multi-source renewable energies, sanitary heating preparation, radiant heating and cooling.

**3. Technological Innovation and Sustainability in the Existing Plant Systems**

Solar cooling, innovations in refrigerating equipment and heat pumps, absorption heat pumps, micro-cogeneration, Stirling engines, hydrogen systems, heat recovery.

**4. Correct Management and Maintenance of the Building/Plant System**

Re-qualification, historical buildings, real estate management and maintenance, environmental and energy quality control, residential buildings' stock, non residential buildings' stock.

**5. Automation Systems for Intelligent Buildings: a Tool for the Reduction of Needs**

Lighting, environmental control, plant control, monitoring and communication protocols, control of energy transformations.

Proposal for free papers: Abstracts (1.500 characters including spaces) should be submitted to AICARR web site within March 1<sup>st</sup>, 2011

TIME SCHEDULE 2011	
March, 1 <sup>st</sup>	Abstracts submittal deadline
March, 15 <sup>th</sup>	Abstracts acceptance notice
June, 15 <sup>th</sup>	Complete paper submittal deadline
July, 15 <sup>th</sup>	Acceptance of papers or request for amendments
July, 31 <sup>th</sup>	Submittal deadline for amended papers
September, 1 <sup>st</sup>	Final acceptance of papers
September 22 <sup>nd</sup> and 23 <sup>rd</sup>	Conference dates