

# THE FUTURE OF THE MEDITERRANEAN CLIMATE PASSES THROUGH MATERA



Matera Italy, May 10<sup>th</sup> • 13<sup>th</sup>, 2017



**Beyond NZEB retrofit  
of existing buildings**

*Riqualificazione NZEB  
degli edifici esistenti*



**Historical buildings retrofit  
in the mediterranean area**

*Retrofit di edifici storici nell'area  
del mediterraneo*



# Beyond NZEB retrofit of existing buildings

Riqualificazione NZEB degli edifici esistenti

**Matera Italy**

May 10<sup>th</sup> • 11<sup>th</sup>, 2017



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## 50° International Congress

**Matera, 10<sup>th</sup>-11<sup>th</sup> May 2017**

## BEYOND NZEB RETROFIT OF EXISTING BUILDINGS

As request by the European Directive 31/2010, important measures are needed to increase the number of buildings which not only fulfill current minimum energy performance requirements, but are also more energy efficient, thereby reducing both energy consumption and carbon dioxide emissions. For this purpose European countries have been requested to draw up national plans for increasing the number of nearly zero-energy buildings and regularly report such plans to the Commission.

The achievement of nZEB targets requires a wide range of technologies, systems and solutions with different degrees of complexity and sophistication, depending on the location and environment conditions, but also on local legislation and market situation. In particular, for mediterranean climate conditions, how can be summarized the nZEB design challenge? A careful building planning permits to obtain indoor comfort conditions both in winter and summer with very low energy consumptions, but an important role is played by heating and air-conditioning installations, by the application of energy from renewable sources, by the passive heating and cooling elements, shading, by the indoor air-quality with adequate natural light and satisfactory indoor noise level.

### TOPICS

- ◆ new buildings in mediterranean climate;
- ◆ the existing buildings: audit and restoration;
- ◆ energy metering and BACS;
- ◆ use of renewables;
- ◆ HVAC system technologies;
- ◆ quality of indoor environments;
- ◆ cases study

### ABSTRACTS AND PAPERS DEADLINE

- |                                  |  |
|----------------------------------|--|
| • 18 <sup>th</sup> july 2016     | ~ 1st submission call for papers                 |
| • 31 <sup>th</sup> october 2016  | ~ abstracts submittal deadline                   |
| • 30 <sup>th</sup> november 2016 | ~ abstracts acceptance                           |
| • 15 <sup>th</sup> january 2017  | ~ complete paper submittal deadline              |
| • 15 <sup>th</sup> february 2017 | ~ acceptance of papers or request for amendments |
| • 3 <sup>rd</sup> march 2017     | ~ submittal deadline for amended papers          |
| • 31 <sup>th</sup> march 2017    | ~ final acceptance papers                        |

# Historical buildings retrofit in the mediterranean area

Retrofit di edifici storici nell'area del mediterraneo

**Matera Italy**

May 12<sup>th</sup> • 13<sup>th</sup>, 2017



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## CLIMAMED 2017

**Matera, 12<sup>th</sup> –13<sup>th</sup> May 2017**

## HISTORICAL BUILDINGS RETROFIT IN THE MEDITERRANEAN AREA

Energy Retrofit is an extremely interesting challenge for engineers, architects, designers. If we focus our attention on historical buildings the challenge is formidable. On the Mediterranean basin, face many countries whose historical and cultural heritage is rich, countries where the challenge posed by the energy retrofit is stimulating and, to some extent, necessary. Interventions in historical buildings must be carefully designed and defined both for the existence of static and/or historical constraints, both for use requirements, operational, maintenance and cost.

The energy performance of buildings shall be defined on the basis of methodologies, which include, in addition to thermal characteristics, other factors that play an increasingly important role such as heating and air-conditioning installations, application of energy from renewable sources, passive heating and cooling elements, shading, indoor air-quality, adequate natural light and satisfactory indoor noise level.

To provide answers to these challenges AicARR, the Italian Association of Engineers in Air Conditioning, Ventilation and Refrigeration organizes jointly with AICVF (France), APIRAC (Portugal), ATECYR (Spain) and TTMD (Turkey) its 9<sup>th</sup> Mediterranean Congress CLIMAMED with the main scope: Retrofit of historical buildings in mediterranean area. In addition to the presence of international speakers (engineers, architects, designers and manufacturers alike can share information and expertise), we will organize a series of workshops, some of which specifically dedicated to aspects of the renovation. On behalf of the Organizing Committee, we invite you to join Matera for the 2017 edition of CLIMAMED.

## TOPICS

- ◆ *Indoor and outdoor climate: how design the retrofit in Mediterranean basin*
- ◆ *HVAC systems: equipment performance in historical buildings*
- ◆ *Use of renewable energy*
- ◆ *Standards for cultural heritage*
- ◆ *Cultural heritage and historical buildings: conservation, microclimate and sustainability*
- ◆ *Applications of new techniques for HVAC*
- ◆ *Cases studies*

## ABSTRACTS AND PAPERS DEADLINE

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- **31<sup>th</sup> october 2016** ~ abstracts submittal deadline
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- **31<sup>th</sup> march 2017** ~ final acceptance papers



# THE FUTURE OF THE MEDITERRANEAN CLIMATE PASSES THROUGH MATERA



## 50° International Conference 10<sup>th</sup>–11<sup>th</sup> May – CONFERENCE FEES

Participants	Early bird up to March 31 <sup>st</sup> , 2017 (+VAT 22%)	After 1 <sup>st</sup> April 2017 (+VAT 22%)
AiCARR Members	400,00	500,00
ASHRAE, IIR, REHVA Members	450,00	550,00
Non Members	550,00	650,00
Speakers (free papers) AiCARR Members	350,00	450,00
Speakers (free papers) ASHRAE, IIR, REHVA Members	400,00	500,00
Speakers non Members (free papers)	500,00	600,00
Students AICARR Members (max 30 years old)	200,00	300,00
Students Non Members	250,00	350,00
Accompanying persons	200,00	300,00
Gala dinner	80,00	80,00

## CLIMAMED 12<sup>th</sup> -13<sup>th</sup> May – CONFERENCE FEES

Participants	Early bird up to March 31 <sup>st</sup> , 2017 (+VAT 22%)	After 1 <sup>st</sup> April 2017 (+VAT 22%)
AiCARR, AICVF, ORDEM DOS ENGENHEIROS, ATECYR, TTDM Members	350,00	450,00
ASHRAE, IIR, REHVA Members	400,00	500,00
Non Members	500,00	600,00
Speakers (free papers) AiCARR AICVF, ORDEM DOS ENGENHEIROS, ATECYR, TTDM Members	300,00	400,00
Speakers (free papers) ASHRAE, IIR, REHVA Members	350,00	450,00
Speakers non Members (free papers)	450,00	550,00
Students AICARR Members (max 30 years old)	150,00	250,00
Students Non Members	200,00	300,00
Accompanying persons	150,00	250,00
Gala dinner	80,00	80,00

## 50° International Conference + CLIMAMED 10-11-12-13 May - CONFERENCE FEES

Participants	Early bird up to March 31 <sup>st</sup> , 2017 (+VAT 22%)	After 1 <sup>st</sup> April 2017 (+VAT 22%)
AiCARR, AICVF, ORDEM DOS ENGENHEIROS, ATECYR, TTDM Members	650,00	750,00
ASHRAE, IIR, REHVA Members	700,00	800,00
Non Members	800,00	900,00
Speakers (free papers) AiCARR Members	600,00	700,00
Speakers (free papers) ASHRAE, IIR, REHVA	650,00	750,00
Speakers non Members (free papers)	750,00	850,00
Students AICARR Members (max 30 years old)	250,00	350,00
Students Non Members	300,00	400,00
Accompanying persons	250,00	350,00
Gala dinner	80,00	80,00