

## **Workshop**

### **Towards Net Zero Energy Solar Buildings**

Experience and feedback of the IEA SHC Task 40 / ECBCS Annex 52

*Sunday, August 25<sup>th</sup> from 9:00 am to 4:00 pm*

*Location: Centre des Congrès, Rue Jean Monard, Aix les Bains*

#### **Purpose of the task/annex:**

Several International Energy Agency (IEA) countries have adopted a vision of so-called 'net zero energy buildings' as long-term goal of their energy policies. However, what is missing is a clear definition and international agreement on the measures of building performance that could inform 'zero energy' building policies, programs and industry adoption around the world. The objectives of the joint Task/Annex "Towards Net Zero Energy Solar Buildings" are to study current net-zero, near net-zero and very low energy buildings and to develop a common understanding of a harmonized international definitions framework, tools, innovative solutions and industry guidelines. To achieve this objective the Task/Annex will document and propose practical Net ZEB demonstration projects, with convincing architectural quality.

#### **Purpose of the workshop:**

This workshop is planned to present the results and the feedbacks of the Task/Annex about the design of Net Zero Energy Buildings through different case studies. It also proposes an exchange and discussions between the task participants and a large audience composed of people interested in the design process of Net ZEBs.

#### **Workshop program:**

<b>09:00 - 09:40</b>	Guest lecturer	Introduction about Net ZEBs
<b>09:40 - 10:20</b>	Andreas Athienitis	Presentation of Task/Annex activities
<b>10:20 - 10:40</b>	Liam O'Brien	Case study : EcoTerra House (Canada)
<b>10:40 - 11:00</b>	Coffee break	
<b>11:00 - 11:20</b>	Sam Yip	Case study : NREL building (USA)
<b>11:20 - 11:40</b>	Francesco Guarino	Case study : Leaf House (Italy)
<b>11:40 - 12:00</b>	Shady Attia	Optimization for Net Zero Energy Buildings Design
<b>12:00 - 14:00</b>	Lunch	
<b>14:00 - 14:30</b>	Salvatore Carlucci	Comfort in Net Zero Energy Buildings
<b>14:30 - 14:50</b>	Aurélie Lenoir, Costa Kapsis	Case study : ENERPOS building (Reunion Island, France)
<b>14:50 - 15:10</b>	Jonathan Leclere	Case study : Charpak building (Corsica, France)
<b>15:10 - 15:40</b>	José Candanedo	Model based predictive control and building grid interactions
<b>15:40 - 16:00</b>		Conclusion of the workshop and discussions

#### **Registration:**

To register to the workshop, please download and send back the registration form to Chadi Maalouf (chadi.maalouf@univ-reims.fr).