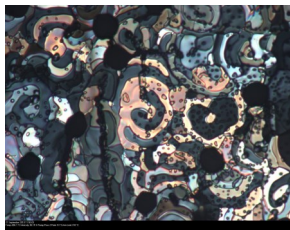


Thermal Energy Storage in buildings

Thermal Energy Storage offers huge commercial possibilities for advanced materials. There are different technologies available depending on the material properties.

- Sensible heat storage uses the specific heat of materials at variable temperature.
- Latent heat storage uses the heat interchanged in phase transitions. This allows high density energy interchanging at constant temperature.
- Chemical heat storage uses reaction heat.

In this workshop we will center in the use of different technologies to keep the comfort temperature in buildings and another applications to save energy. Particularly the use of phase change materials (latent heat storage) offer great advantages and some drawbacks that will be discussed in the workshop.



Venue: UB, Physics. Martí i Franquès 1.,
Fontseré Room

Date: 3rd November 2014

Free online Inscription

The workshop will be open for the public in general, but we encourage you to make the online inscription. It permits us to know approximately how many people will assist.

Program

9:45-10:00	<p>Welcome</p> <p>Raül Benages Vilau, XARMAE, Barcelona</p>
10:00-10:30	<p><i>Seasonal thermal storage and other technologies.</i></p> <p>Eduard Oró, IREC, Barcelona</p>
10:30-11:00	<p><i>The role of thermoregulating materials in the future passive house development.</i></p> <p>Manuel Carmona Franco, Universidad de Castilla la Mancha</p>
11:00-11:30	<p><i>Energetic Performance of a ventilated double skin facade with PCM.</i></p> <p>Alvaro de Gracia, Lidia Navarro, Albert Castell, Luisa F. Cabeza. GREa, Universitat de Lleida, Lleida</p>
11:30-12:00	<p><i>In situ thermal performance of a shape-stabilized PCM layer for building applications.</i></p> <p>Camila Barrenche, Lidia Navarro, Alvaro de Gracia, Luisa F. Cabeza and A. Inés Fernández. Diopma, Universitat de Barcelona, Barcelona</p>
12:00-12:50	<p><i>Heat transfer and enhanced melting in geometries suitable for latent-heat thermal energy storage systems</i></p> <p>Gennady Ziskind, Ben-Gurion University of the Negev, Israel</p>

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