

## Lectures and Seminars will cover

### Fundamentals, Theory & Characterisation

Introduction to Phase Change Materials

Materials for PCMs

Structure

Processing

Testing & Characterisation

### Modelling PCMs in buildings & Renewables

Modelling properties of PCMs and systems

Modelling basic heat transfer phenomena

Modelling PCMs integrated into buildings and renewables

Model Verification and Validation

### Experimental Analysis and Use

Architect's Perspective

Optimisation of PCMs in building structures (exergy)

Experimental Procedure

PCM Application in Buildings

PCM Application in Renewables

Evaluation of Buildings

Sustainability and Economics

### Case Studies - STSM Reports

### Poster Session

### Field Trips and Laboratory Tour

## Fees

There is a cost of €150 for each participant to cover administration costs. Grants are available to cover travel & subsistence for one person from a country participating in the COST Action.

Information on hostels, hotels and travel to Lleida is available on the website.

## Application

E-mail application to  
[PCMTrainingSchool@dit.ie](mailto:PCMTrainingSchool@dit.ie)

Alternatively, send the completed application to

P.O. Box PCM Training School

DIT Kevin Street,  
Dublin 8, Ireland.

## Poster Sessions

Students will present a poster (give a short introduction) and then be given the opportunity to discuss their research with the Training School staff and fellow students.

*CFD Model of PCM on front cover from*

*work by Dr M Huang*

*Lleida Photo © Jesus Garcia*

# Training School



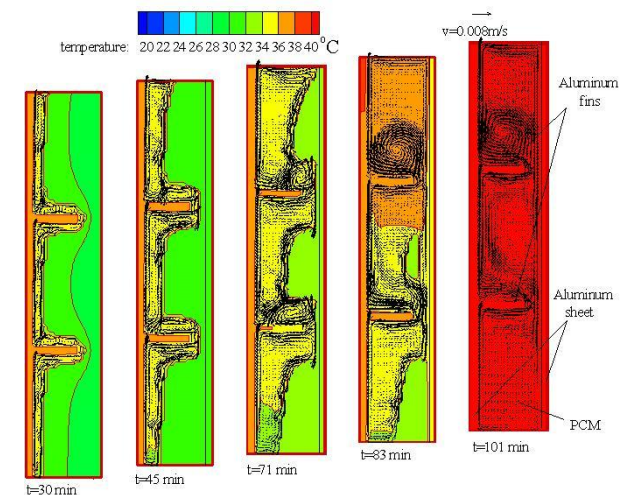
European co-operation in Science & Technology

Next generation cost effective  
phase change materials for  
increased energy efficiency in  
renewable energy systems in  
buildings (NeCoE-PCM)

May 21-23, 2011

University of Lleida, Catalonia, Spain

<http://tu0802.com/>





**Speakers will be drawn from:**

Dr Sarah McCormack,  
Chair TU0802, Trinity, Dublin, Ireland

Prof Luisa F. Cabeza,  
University of Lleida, Spain

Prof Theocharis Tsoutsos,  
Technical University of Crete, Greece

Dr Marek Rebow,  
Dublin Institute of Technology, Ireland

Prof Elena Palomo,  
University of Bordeaux, France

Dr Cristian Solé,  
University of Lleida, Spain

Prof. Halime Paksoy,  
Çukurova University, Turkey

Dr Inés Fernández,  
University of Barcelona, Spain

Dr Mick McKeever,  
Dublin Institute of Technology, Ireland

Dr Ana Lázaro Fernández,  
Universidad Zaragoza, Spain

Dr Stefan Gschwander,  
Fraunhofer - ISE, Germany

Dr Albert Castell,  
University of Lleida, Spain

Dr Nikos Papamanolis,  
Technical University of Crete, Greece

Prof Manuella Almeida,  
University of Minho, Portugal,

Prof Christopher Koroneos,  
Chair Cost Action C24

Prof Gennady Ziskand,  
Ben-Gurion of the Negev, Israel

Dr Pablo Delado,  
Universidad Zaragoza, Spain

Dr Philip Griffiths,  
University of Ulster, UK

**Application**

**Title:**

**Family Name:**

**First Name(s):**

**Organisation:**

**Department**

**Country:**

**Email:**

**Main research area:**

**Academic Advisor:**

**Please summarise your research plans:**

**Please inform us of the topic you are most interested in?**

**I wish to apply for a Grant YES / NO**

**COST TU0802 Country:**

Grant of €500 for a person from the following countries: BG CH CY CZ DE DK ES FR GR IR IS LI LV ND PL RT RO SR SL SW UK