



EUROTHERM SEMINAR n° 93

Thermal energy storage and transportation: materials, systems and applications

16-18 November 2011

Bordeaux Campus, FRANCE



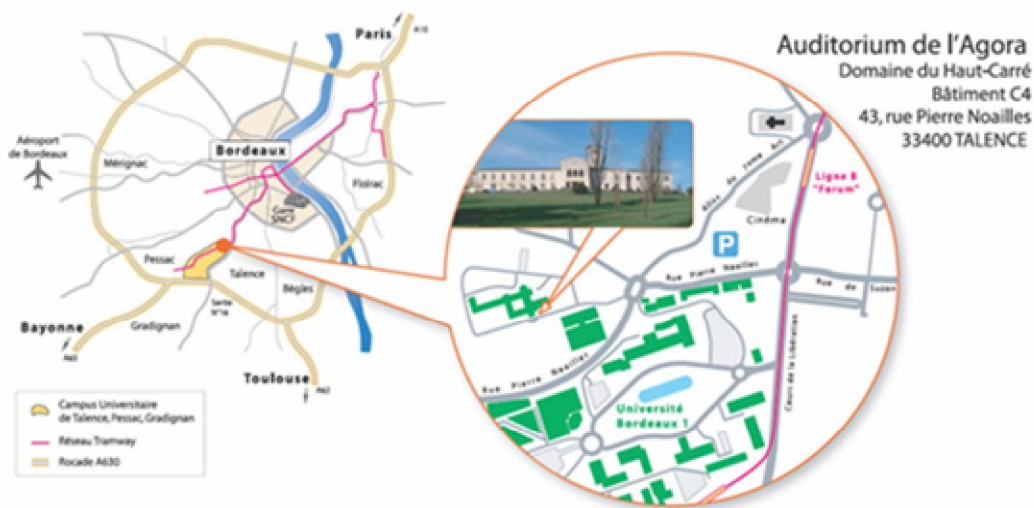
Scientific scope

This seminar will present the state of the art and the modern trends in thermal energy storage. It will focus on novel and improved materials for thermal energy storage as well as on advanced storage systems and significant applications. The objective of the seminar is to bring together experts from both the materials development and the systems integration fields, from academia and industry, and to provide a forum for exchanging ideas and expertise. The seminar aims to cover materials synthesis and processing, characterization and analysis, including thermal, chemical and mechanical aspects as well as theoretical, numerical and experimental approaches. The seminar will also address system integration with focus on advanced concepts for transfers intensification and compactness. All significant applications involving heat storage are also of interest.

Main topics include

- Improved and new phase change materials.
- Materials/reactions for thermo-chemical and chemical storage.
- Advanced fluids for thermal energy storage and transportation.
- Multiphysics and coupled phenomena.
- Reliable methods for testing and characterization.
- Numerical modelling, from the molecular scale to the macroscopic scale.
- Advanced storage systems: transfers intensification, testing methods, performance assessment, modelling and design.
- Applications, demonstration projects: seasonal solar thermal storage, cogeneration and tri-generation, building cooling, district heating, industrial waste heat, concentrated solar power, etc.





Format of the seminar

Plenary lectures given by Keynote speakers followed by parallel sessions including invited and contributed talks. Selection of contributed oral and poster presentations will be made by the Scientific Committee based upon the review of a summary.

Call for contributions

Authors are invited to submit a two-pages extended abstract for poster or oral presentation. Guidelines for submission are found on

<http://eurotherm-sem93.u-bordeaux.fr>

Important dates

Abstracts submission deadline: May 15th 2011

Notification to authors: June 31th 2011

Early registration: Till September 15th 2011 (30% increase after this date)

Chairs	Local organizing committee		
Andreas Hauer (ZAE-Bayern, Germany)	Azita Ahmadi	Didier Lasseux	Elena Palomo
Elena Palomo del Barrio (University of Bordeaux, France)	Muriel Boré	Frédéric Lapègue	Alain Sempey
	Sylviane Boya	Laurent Mora	Alain Sommier
	Jean-Luc Dauvergne		

Registration fee

Early registration till September 15th 2011 (30% increase after this date)

Academic: 180 €/ Industrial: 250 €/ Accompanying person, gala dinner: 50 €

EUROTHERM Web Site: <http://termserv.casaccia.enea.it/eurotherm>

Seminar Web Site: <http://eurotherm-sem93.u-bordeaux.fr>

