The Energy GRP invites you to a lunchtime seminar:

Using of phase change materials integrated into relocatable lightweight buildings for energy savings

Date: Friday 22nd July
Time: 12:00 – 14:00
Location: D202, School of Engineering, University of Warwick

Energy is becoming one of the most important issues in our society. Shortage of primary energy, cost of fossil fuels, and environmental concerns are the main factors that have prompted research into new and more efficient energy systems. Among these systems, thermal energy storage (TES) has become a key technology because it provides several alternatives. The use of phase change material (PCM) for thermal energy storage has gained importance in recent years and since it can absorb or release large amounts of latent heat working in narrow margins of temperature. A high energy density and isothermal behaviour during charging and discharging are the main reasons for PCM to be preferred. PCMs have been considered for thermal storage in buildings since before 1980. There are two different ways to use PCM for heating and cooling in buildings: in building walls or components (passive), and in heat or cold storage units (active). In this presentation, I will show part of my research work related to phase change materials incorporated in transportable or off-site constructed lightweight buildings.

Biography: Paula E. Marin is a metallurgist chemist and has completed a Master in Engineering Science, major Mineral Processes at the University of Antofagasta, Chile. Currently, is Ph.D. student of Mineral Processes Engineering Program at the University of Antofagasta, Chile, working in her doctoral thesis research in topic related to development of materials and thermal storage methods to energy saving in lightweight constructions. She is a research assistant in the CELiMIN center, a multidisciplinary group backed by years of experience in scientific research and consulting to industry, grouped around specific projects related to lithium and industrial minerals.

Registration required for catering purposes:
http://www.go.warwick.ac.uk/energygrpevents1