

## Objectives & Scope

Nowadays, it is acknowledged the great importance of energy consumption in buildings, which is estimated at about 40% of energy consumed at the national levels. The European Commission published three directives that impose actions for energy efficiency and clean energy in buildings and urban areas (EPBD 2010/31/EC, REN 2009/28/EC, and ESD 32/2006/EC), while worldwide green energy policies are adopted to protect the environment and ensure a sustainable energy approach for our entire planet.

Scientific communities from all over the world are working on new sustainable energy solutions (technologies, new design principles and tools, BEMS<sup>™</sup>s, smart grids, smart consumers etc.). The symposium aims to provide an international forum for the presentation, exchange of ideas and creation of knowledge in recent advances on various aspects of theories, analysis, and applications of sustainable energy principles with regard to efficiency, availability and environment protection when envisioned for the buildings and urban areas of our near future.

### MAIN TOPICS OF SYMPOSIUM

- Technologies for sustainable use of energy in buildings
- Sustainable energy sources for buildings
- Energy efficient architecture
- Energy efficiency design tools
- Energy efficient building models
- Smart grids for smart neighbourhoods (energy generation and distribution)
- Building/neighbourhood energy management systems (energy consumption)
- Building monitoring and control intelligent systems (intelligent BEMS)
- Energy efficiency policies and legal frameworks with international impact

Papers in other relevant areas not listed above are also welcome.

In addition to contributed papers, there will be a number of invited lectures and a panel discussion. Details of these will be announced at a later date on the SEBUEA<sup>™</sup>12 website, <http://www.ichmt.org/sebua-12>. An Open Forum session will give authors an opportunity to present new work, or work in progress, which is not yet ready for review.