



WS 19: Building automation and control systems: continuous operational energy use optimization

Wednesday, 25 May 2016, 11.00-12.30, Meeting room 8

Workshop organiser

REHVA - eu.bac joint Task Force on Building Automation and Control Systems (BAC)

Organisers/moderators:	Andrei Litiu and Peter Hug	eu.bac
Speakers:	Bonnie Brook	eu.bac
	Stefano Corgnati, Simona D'Oca and Valentina Fabi	REHVA
	Roland Ullmann	eu.bac

Background

Building automation and control systems have a crucial role in continuously optimizing the energy use during the operation phase of buildings while at the same time ensuring adequate indoor environment quality and enabling occupants' behaviour change. However, most often due to the sheer variety of solutions that are available, the value proposition from automated controls becomes blurred between competing claims and is adversely affected by implementation problems that are exacerbated by insufficient standardisation. Other barriers to reaping the energy and non-energy benefits of building automation and control systems include among others the following: awareness of options and value propositions, access to qualified personnel to design, install and commission BAC, the fact that poor implementation often goes undetected.

Scope

The aim of the workshop is to interactively discuss about the before mentioned issues and what practical tools can be used to overcome them and ensure building automation and control systems deliver their multiple benefits promises.

The workshop will include the presentation of several certified buildings.

Attendees

Industry, designers, architects, specifiers, system integrators, installers, building commissioners, facility managers, energy inspectors, energy auditors, students, building owners.

Expected results

- Raise awareness regarding the multiple benefits of building automation and control systems.
- Provide guidance for a standardized approach in design or auditing activities.
- Collection of inputs from participants to feed in the current work of the Task Force.
- Identification of most important research topics in the area of building automation and control systems.

Tentative Programme

- Setting the scene (**Andrei Litiu & Peter Hug**)
- European certification method for assessing the building automation impact on energy efficiency in buildings (**Bonnie Brook**)
- Showcase of certified buildings (**Roland Ullmann**)
- Energy use behaviour change - occupants' interaction with building automation and controls (**Stefano Corgnati, Simona D'Oca, Valentina Fabi**)



Discussion topic

The discussion shall be underpinned by each presentation and mostly focus on the multiplier effect of building automation and controls, more specifically:

- Continuous optimisation of energy use;
- Indoor environment quality;
- Enabling energy use behavioural change.

In addition to the traditional questions and answers sessions, the participants will interactively be involved in the workshop via a voting tool. Each presentation will be followed by several multiple choice questions verifying the freshly stored information by participants during the presentations. Those who will pay attention shall receive meaningful rewards.