

WINDSOR 2014 CONFERENCE

COUNTING THE COST OF COMFORT

THE WORKSHOP PROGRAMME

WORKSHOP 1: Comfort, User Behaviour and Energy Efficiency

Invited Chairs: Jens Pfafferot and Atze Boestra

11th April 2014: 16.30 – 18.30 - Flitcroft Room (2 Hours)

It is widely accepted that the adaptive approach to thermal comfort may be applied to passively cooled buildings and the static approach to air-conditioned buildings. Though the standards (e.g. EN 15251 or ASHRAE 55) give precise definition that the adaptive approach should only applied to buildings without any kind of mechanical cooling, there is an on-going discussion on the application of the adaptive or a hybrid approach to mixed-mode buildings or low-energy buildings with limited cooling capacity (e.g. mechanical night ventilation or thermo-active building systems), respectively. In recent years, more and more buildings have been built in or retrofitted towards low-energy or even zero-energy standard. Consequently, most new and retrofit office buildings use low-energy cooling with limited cooling capacities. Hence, owners, planners and architects ask for good building practice and a legislative binding procedure for the classification of thermal comfort in low-energy buildings. Interactive discussion will explore aspects of thermal comfort and user behaviour especially for buildings with low-energy cooling concepts. US perspective.