

INVITED SESSION SUMMARY

Title of Session: Cross-disciplinary perspectives on building performance: bridging the gap between the technical and the human

Name, Title and Affiliation of Chair: Professor Christopher Tweed and Dr Gabriela Zapata-Lancaster, Welsh School of Architecture, Cardiff University

Details of Session (including aim and scope):

A glance at any curriculum for contemporary architectural education will reveal sharp divisions between different conceptions of how people experience buildings. These tend to be driven either by technical concerns framed in terms derived from physical comfort studies conducted within the thermal, acoustic and visual realms, or social science based studies of human perceptions and responses to heat, light and sound, or by humanistic discourse that draws on philosophical (especially phenomenological) accounts of what it means to be in the world and specific environments.

These different viewpoints rarely touch, leaving the emerging graduate to integrate them (or not) in actual buildings without any guidance. This session proposes to consider the gap between these different perspectives and to consider a human-centred approach to designing indoor environments that embraces physical, psychological and philosophical perspectives. The aim is to explore the interface between people and technology in achieving preferred environmental conditions whilst simultaneously satisfying low carbon goals. The scope of the session will be the intersection between the prevalent (mainly technical) approaches to building performance, psychological studies and humanistic descriptions of architectural experience. We welcome contributions that investigate operational and design stages.

Papers could be invited to address:

- occupant operating strategies for low carbon buildings
- the balance between smart systems and occupant actions in creating and maintaining preferred internal environments
- the perception of and response to different environmental conditions by different types of users and occupants
- skills required to operate Passivhaus and similar low energy buildings
- human-centred approaches to evaluating building performance
- post occupancy evaluation strategies and methods
- the ethics of building performance control
- human-centred perspectives to design of low carbon buildings
- use of post occupancy evaluation and monitoring data to design new buildings

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

Zsafia Belafi, Budapest University of Technology and Economics, Hungary (not contacted yet).

Website URL of Call for Papers (if any):

Not available yet.

Email & Contact Details:

Prof Chris Tweed
Head of School
Welsh School of Architecture
Cardiff University
Bute Building
King Edward VII Avenue

Yr Athro Chris Tweed
Pennaeth Ysgol
Ysgol Pensaernïaeth Cymru
Prifysgol Caerdydd
Adeilad Bute
Rhodfa'r Brenin Edward VII

Cardiff CF10 3NB
Wales U.K.

Tel: +44 (0)29 2087 6207
Email: TweedAC@Cardiff.ac.uk
Twitter: [@SuDoBE](https://twitter.com/SuDoBE)

Caerdydd CF10 3NB
Cymru D.U.

Ffôn : +44 (0)29 2087 6207
E-bost: TweedAC@caerdydd.ac.uk