

Wednesday 12 September 2018

15.00 Parallel sessions 6

Session 6A: Facade Modelling 2
Session Chair: Rokia Raslan,
University College London
Seminar Room

Session 6B: Climate
Session Chair: Pieter de
Wilde, Plymouth University
Theatre

Session 6C: Occupant Behaviour
Session Chair: Rob McLeod,
Loughborough University
Harrods Room

Thermal performance simulation of complex fenestration systems in the early design stage

Steffen Petersen¹, Thea Broholt¹, Louise Christensen¹, Pil Brix Purup²

¹Aarhus Universitet, Denmark; ²Niras A/S

Influence of climate on the daylight and thermal performance of buildings in Kerala (India)

Renjith Jayapalan Nair, Eleonora Brembilla, Christina Hopfe, John Mardaljevic

Loughborough University, United Kingdom

Towards a comprehensive model of window control behaviour: A survey-based investigation on interdisciplinary drivers in Danish dwellings

Verena Marie Barthelmes¹, Rune Korsholm Andersen², Yeonsook Heo³, Valentina Fabi¹, Stefano Paolo Corgnati¹

¹Politecnico di Torino, Italy; ²Technical University of Denmark, Denmark; ³University of Cambridge, UK

The effect of thermal insulation and user behaviour on energy consumption and comfort of residential houses

Dóra Szagri, Balázs Nagy

Budapest University of Technology and Economics, Hungary

Effect of climatic data on building performance optimization

Giorgio Lupato, Marco Manzan, Amedeo Pezzi

University of Trieste, Italy

A critical investigation of methods applied to multi-configuration households on energy consumption patterns within the building performance gap in the UK

Abdelrahman AIM Aly, Amira ElNokaly, Glen Mills
University of Lincoln, United Kingdom

Modelling of thin internal wall insulation in existing dwellings with varying occupancy and constructions in IES

Thomas Daniel Cooke, Ewan Jones, David Ross

AECOM, United Kingdom

Development of a REST API for obtaining site-specific historical and near-future weather data in EPW format

Hu Du¹, Phillip Jones¹, Eva Lucas Segarra², Carlos Fernández Bandera²

¹Cardiff University, United Kingdom; ²University of Navarra, Spain

The importance of occupancy and energy use patterns on predicting building energy performance: a case study of a residential building in London

Sahar Zahiri, Heba Elsharkawy, Wei Shi
University of East London, London, United Kingdom

Parametric investigation of brick extrusion patterns using thermal simulation

Khaled Aly Tarabieh¹, Sherif Abdelmohsen¹, Asmaa Gamal², Rana Bahaa³, Yomna El Ghazi³

¹American University in Cairo; ²Future University in Egypt; ³The Arab Academy for Science, Technology and Maritime Transport

UWG -TRNSYS simulation coupling for Urban Building Energy modeling

Massimo Palme¹, Agnese Salvati²

¹Universidad Católica del Norte, Chile; ²Oxford Brookes University, UK

Modelling of window operating behavior in open-plan offices

Tiance Liu, Xin Zhou, Xing Shi, Xing Jin
Southeast University, China, People's Republic of

Influence of façade details on early design decisions regarding daylight performance of neighborhoods

Minu Agarwal, Luisa Pastore, Marilyne Andersen

EPFL, Switzerland

The Effect of Urban Spatial Characteristics on Microclimate

Wei Liao, Yeonsook Heo

University of Cambridge, United Kingdom

Evaluation of occupancy impact in a residential multifamily nZEB through a high resolution stochastic model

Antonio Tejero Peregrina¹, Joana Ortiz Ferrá^{1,2}, Jaume Salom¹

¹Catalonia Institute for Energy Research (IREC); ²Universitat Politècnica de Catalunya, Barcelona, Spain