

Day Conference:
Mass Matters in Low Carbon Building Design - Regulations, Energy and Climate Change

Date: 3rd Sept 2012
Time: 09:00 - 16:15
Venue: Cairn Auditorium, Post Graduate Centre, Heriot Watt University - [booking information here](#)

Thermal mass in buildings acts in a number of different ways that are potentially very important in creating the comfortable, safe and affordable Low Carbon Buildings (LCBs) we need for an unpredictable future. This conference is designed to inform attendees about why, how, when and where mass is important in design. Examples will be given of how it has been successfully incorporated into new and traditional low carbon buildings and approaches and tools will be described that can be used by designers to optimally place and utilise mass in buildings. > [more](#)

CONFERENCE PROGRAMME:

Each presentation will be 20-25 minutes long with an opportunity for questions.

09:00 Breakfast and Registration		
09:30 Session 1:	Where Mass Matters in the Regulations	Chair: Phil Banfill Heriot Watt University
09:35	The Role of Mass Scottish Building Regulations	Steven Scott Scottish Government
10:00	Measured dynamic heat transfer through mass walls	Paul Baker Indoor Climate and Health Research Centre, GCU.
10:30	How SAP, Dynamic Simulation (IES) and the Passive House method deal with Mass - A comparison of approaches	Kevin Bowe & David Jenkins Heriot Watt University
11:00	The impact of thermal mass in relation to comfort, overheating and energy use in UK buildings.	Paul Tuohy University of Strathclyde Glasgow
11:30 Coffee break		
11:50 Session 2:	Mass storage and use in larger buildings	Chair: Colin Porteous Mackintosh Environmental Architecture Research Unit
11:55	Dynamic Thermal Structures - moving energy around seasons and buildings	Andy Ford Mott Macdonald
12:25	Ice cooled buildings - ice storage systems in the UK	Andy Pearson Star Refrigeration
13:05	Labyrinths - inter-seasonal storage and release	Patrick Bellew Atelier Ten
13:35 Lunch		
14:10 Session 3:	Making the most of Mass in existing buildings	Chair: Sue Roaf Heriot Watt University
14:15	Making the most of Mass in refurbished historic buildings	Roger Curtis Historic Scotland
14:30	Solar Heating Systems - passive heat storage - warm wall systems in Scottish tenements	Fan Wang Heriot Watt University
15:25	Hybrid Solar Thermal Mass System for Housing	Tom Grassie Edinburgh Napier University
15:55	Full Panel Discussion on modelling Mass with audience participation	
16:15 Thanks and Close		

DELEGATE FEES:

CIC Start Online Member, one delegate = £125
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WEBINAR

"Outdoor Comfort and Urban Heat Island Studies in Glasgow"

Date: 3rd August 2012
Time: 12:30 - 14:00 (BST / GMT+1)
Venue: K501, Buchanan House, Glasgow Caledonian University, Glasgow, G4 0HG.

Summary:

This presentation shows a summary of studies conducted in 2011 in Glasgow, UK, related to the thermal perception of pedestrians and to the observed heat island effect in its urban area.

A series of field surveys were carried out as well as a small network of weather stations was set up across the urban area. The time frame for both field works was from February/March through August/September 2011. The main outcomes were in terms of identifying a preliminary thermal comfort range for the local population and of the mapping of 'hot spots' within the central area with a more pronounced heat island effect.

Research methods include experimental set-up, use of questionnaires with pedestrians, data collection and analysis and quantification of urban form features such as the "sky view factor" and the H/W factor (height of building to street width). We explore the implications of these findings to both the outdoor urban design as well as to future studies on outdoor comfort in temperate cold cities

Speakers:

Prof Dr Eduardo Krüger
Associate Professor, Department of Civil Engineering,
Federal Technological University of Paraná (UTFPR), Brazil

Dr Rohinton Emmanuel
Reader in Sustainable Design & Construction
Glasgow Caledonian University

Booking:

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- Company logo included on the webinar screen and the video recording.
- Company logo and a link to website in the event summary that will be published in Innovation Review, our quarterly online magazine available at our website [www.cicstart.org](#)

If the above proposal is of interest to you, please contact Craig Bishop on 0141 273 1401

CIC Start Online is led by Glasgow Caledonian University in collaboration with Edinburgh Napier University, The Glasgow School of Art, Heriot Watt University, The Robert Gordon University, University of Edinburgh and University of Strathclyde Glasgow. CIC Start Online is funded by the European Regional Development fund and Scottish Government's SEEKIT programme.



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