



Webinar + seminar
10th November 2011
**Synergy of Fabric and Energy Conservation
in Older Historic Properties**
Edinburgh Napier UNIVERSITY
THE MORRISON PARTNERSHIP



"Synergy of Fabric and Energy Conservation in Older Historic Properties"

Date: 10th November 2011

Time: 12:30 - 14:00 (GMT)

Venue: Seminar Room K505, Buchanan House, Glasgow Caledonian University, 58 Port Dundas Road, Glasgow, G4 0HG.

Summary:

It is vital that older properties and current stock buildings in Scotland are analysed and refurbished adequately to increase its thermal response, increase thermal comfort, reduce fuel poverty and reduce carbon emissions. By doing so the tough targets imposed by the Scottish and UK governments can be partially met and while doing so increase the life line of our existing stock of buildings.

The Academic consultancy conducted in collaboration with The Morison Partnership, architects and CDM Co-ordinators, has taken a 19th Century two storey mansion house in Alyth, Blairgowrie as a case study in which fabric interventions and energy efficient alternatives were tested, all of which were taken into consideration in later architectural solutions and specifications.

The work included the creation of a dynamic thermal simulation model of the two storey house in its current form which latterly, per the architect's original specifications and some in house alternatives, was enhanced and evaluated to create an expected energy outline and cost savings. The objective was to create a series of alternatives that would potentially reduce the thermal transmittance of the elements and hence reduce the energy demand of the buildings water & space heating technology.

The simulation permitted such study to test various alternatives related to; wall, roof void, and floor insulation types and quantities coupled with alternatives in window type and performance. With these solutions and alternatives it was possible to reduce the air infiltration of the building making it air tight without compromising on indoor air quality or creating moisture irregularities in the original fabric.

The results of the fabric intervention indicated expected energy consumption patterns (in accordance to actual energy bills and usage) which were then implemented to create small renewable energy alternatives by adequately sizing the systems and therefore providing a more realistic approach to new technology for sourcing green energy.

The conclusions derived from this study have been vital to appropriately specifying materials and procedures in the refurbishment of the house which will in the long run be beneficial to the owners, by paying less energy and paying back their investment, and also to the environment by reducing the ecological footprint of the property and its users.

Speakers:

Julio Bros-Williamson, Edinburg Napier University
Dr. Cameron Purdie, The Morrison Partnership

Booking:

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POSTPONED WEBINAR ON 19TH OCTOBER - UPDATE

"Optimisation of economic, environmental and energy savings in buildings"

When a power failure prevented us from holding our last webinar, an audio recording was made and we will make the webinar recording available in the near future. You will receive a separate email with details for accessing the recording when it is available. Thank you for your understanding!

15TH NOVEMBER 2011 - SUBMISSION DEADLINE

Funding is available for 19 feasibility studies (up to £5,000 each) and 3 academic consultancies (up to £3,000 each). Information and a video on how to apply are available at www.cicstart.org. If you have any questions, please contact Dr Branka Dimitrijevic at branka@cicstart.org or on 0141 273 1408.

CONGRATULATIONS TO CIC START ONLINE MEMBERS:

- **Tom Morton of ARC Architects** who has been nominated for the prestigious Spirit of Scotland and the CaRB energy saving project which won the Scottish Green Award 2011 for Best Green Community Initiative
- **HAA Design** who won an award from British Council for Offices for the Scotstoun House refurbishment and extension design for Arup Scotland, featured in a CIC Start Online video.
- **Kyle Electronic Design Ltd**, whose eco-wand ComfoMeter product, which helps office managers and householders reduce their energy bills, won the HVR Sustainable Product of the Year Award 2011 against competition from England, North America, Japan and Europe.

PARTNER EVENTS

- **10th November 2011**
Building Information Modelling (BIM) - are you ready Scotland? > [more information online](#)
- **25th November 2011**
ICARB International Conference on Carbon Accounting > [more information online](#)

ZEMCH 2012

CIC Start Online collaborates in the promotion and dissemination of the outcomes of the forthcoming international conference on Zero Energy Mass Custom Homes that will take place at the Mackintosh School of Architecture, Glasgow School of Art, on 12-14 September 2012.

Please see more at <http://www.zemch2012.org>

WEBINAR SPONSORSHIP

To date, CIC Start Online has attracted 890 members from 680 organisations comprising construction clients, building designers, contractors and other professionals with business links to the sector.

The event adverts are published on our website, e-news and in a range of online publications read by Scottish and UK wide audience such as **Scottish Construction Now** (daily e-news), **Scottish Construction Centre** portal, **Energy Efficiency Learning Network** for members of Scottish Federation of Housing Associations, **Urban Realm** online, **Towards Transition Glasgow** online, **Sustainable Scotland Network** online newsletter, **Sustainable Scotland** e-news, **Scottish Sustainable Development Forum** website and e-news, **CIOB** on Facebook, **Interface** website and e-news, **Building.co.uk** website and e-news.

As our events provide excellent opportunities for marketing, we would like to invite sponsorship. Sponsorship fee of £350 per event will provide the following marketing:

- Company logo and a link to website in the event advert.
- Company sponsorship acknowledged at the introduction of the seminar.
- 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@gcu.ac.uk or 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



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