

Innovation Review Published!

This new issue contains articles on:

- Carbon Trust - Delivering the Future Today
- Insulation and Solid Masonry Walls
- Greyfriars Community Project
- The Redevelopment of the National Museum of Scotland

Available in PDF format [here](#)



WEBINAR



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"Energy Efficiency Retrofit Cost-Benefit Calculator"

Date: 8th March 2012
Time: 12:30 - 14:00 (GMT)
Venue: Seminar Room K505, Buchanan House, Glasgow Caledonian University, 58 Port Dundas Road, Glasgow, G4 0HG.

Summary:

This webinar explores the development of a retrofit analysis tool by Changeworks, in partnership with the Urban Energy Research Group in the School of Built Environment at Heriot-Watt University, and with support through CIC Start Online funding. The tool is designed to inform future decision making strategies to target hard-to-treat housing, so that energy efficiency standards, climate change targets and fuel poverty can be addressed cost effectively. Unlike other tools this allows the input of actual data rather than generic dimensional data to provide accurate savings and costs for measures such as solid wall insulation.

CIC Start funding helped with improving functionality, levels of analysis and better graphical outputs. The tool is now able to provide a clear understanding of costs and benefits related to different strategies for achieving the client's outcomes. Detailed analysis can be undertaken for a range of property refurbishment options to determine impact on fuel poverty, carbon reduction, capital budgets and compliance with minimum standards such as current and future Scottish Housing Quality Standards.

A second round of CIC Start funding has been secured to develop variability and Green Deal modelling capabilities.

Speakers:

Robert Barnham, Changeworks
David Jenkins, Heriot Watt University

Booking:

To book your place at this event, please click "attend in person" or "attend online" above

WEBINAR



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"Evaluating and Improving a Model for Reducing Fuel Poverty"

Date: 22nd March 2012
Time: 12:30 - 14:00 (GMT)
Venue: Seminar Room K505, Buchanan House, Glasgow Caledonian University, 58 Port Dundas Road, Glasgow, G4 0HG.

Summary:

This report is the final product of the consultation provided to Solas Scotland Ltd which evaluates and analyses a scheme focusing on the reduction of Fuel Poverty in Scotland called Local Energy Saving Scheme (LESS). This academic consultation has examined the methodology, outcomes and possible improvements of the LESS model to eradicate fuel poverty in Scotland.

Fuel Poverty in Scotland has presented itself in various ways; most cases related to housing standards and ways of heating and creating thermal comfort in households. If these standards are jeopardised and the ability to adequately heat a home becomes a burden and an economical struggle, then quality of life is affected and health issues can arise. When a house owner starts to spend more than 10% of the household's income in energy and struggles to pay it, the occupiers are referred to as a core group of people who suffer from fuel poverty.

The level of fuel poverty is measured directly by how thermally efficient homes are. If a home is proven to be highly efficient in maintaining internal temperatures without increasingly boosting various heating sources, then it's demand for energy is reduced. If this is not achieved, the level of thermal capacity is reduced consequently energy demand increases which results in higher energy bills.

Fuel poverty is not only caused by poor dwelling thermal conditions. In many occasions it can also be the in-adequate administration of energy payments in the household. There are various ways of paying for fuel; it can be done directly on a monthly basis, or it can be paid on direct debit from a bank, or in many cases the households have pre paid meters. Dealing with many energy providers can make these payments complicated and hard to organise which can lead to higher bills and in some cases debt and energy "cut-offs".

This report has created an awareness of the LESS model pointing out similar schemes around Britain and also a review of the current community engagement which has been so successful in areas where the model is in operation.

Speakers:

Julio Bros-Williamson, Edinburgh Napier University
Leanne Evans, Solas Scotland Ltd

Booking:

To book your place at this event, please click "attend in person" or "attend online" above

WEBINAR



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"Developing Homegrown Natural Fibre Insulation Products"

Date: 29th March 2012
Time: 12:30 - 14:00 (GMT)
Venue: Seminar Room K505, Buchanan House, Glasgow Caledonian University, 58 Port Dundas Road, Glasgow, G4 0HG.

Summary:

Kraft Architecture & Research has been developing a variety of novel natural fibre building insulation products for use in hygroscopic or 'breathable' wall construction.

Our interest in exploring hygroscopic Breathing Walls is in response to conventional contemporary building practices that require new homes to be very airtight. Walls built today are very energy-efficient but cannot handle the inevitable intrusion of moisture, resulting in potential mold, ill health for occupants and structural damage. Many know the maxim of "build tight, ventilate right," less are aware of the argument to construct an envelope that is "waterproof but vapour permeable."

We are interested in developing insulation products which have a high recycled content and that make use of the hygroscopic qualities of natural fibres. In tandem with this aim, the development of these products seek to create insulation products which use 100% low grade material / clean waste streams.

The work has involved identifying appropriate fibres, trialling production and testing a variety of waste streams including wool, cotton, wood, cellulose, denim & feathers.

The aim of this study was to test the thermal conductivity of a variety of natural fibres formed using a non-woven bonding process at different densities to see whether this had an impact on their performance.

A test wall constructed with a prototype insulation product manufactured using Scottish waste wool has also been tested in accordance with

Our presentation will discuss the processes, results and future work ahead for this project.

Speakers:

Dr Paul Baker, Glasgow Caledonian University
Bruce Newlands, Kraft Architecture

Booking:

To book your place at this event, please click "attend in person" or "attend online" above

COMPETITIONS

- 50 feasibility studies and 20 academic consultancies initiated

CIC Start Online has reached the planned target to initiate 50 feasibility studies and 20 academic consultancies on sustainable building design and refurbishment. Please access the above links to see their titles, outputs of completed studies and descriptions of on-going studies.

PARTNER ACTIVITIES

- ZEMCH 2012 International Conference in Glasgow: The deadline for abstracts has been extended to 5th March 2012. > [more information](#)

- LEARN event - Linking Education Architecture and Research Initiative: Takes place on 5th March at 10am at the University of Strathclyde, Glasgow, Student Union Debates Chamber, 90 John Street. > [more information here](#)

VISIT FIRST SCOTTISH SUPERHOME

Andy Maybury, Development Officer at Community Energy Scotland, is opening his house again this spring as part of the Old Home SuperHome events on 16th & 17th March. Please access the following link to ask a visit <http://www.superhomes.org.uk/superhomes/hawick-howdenbank/>

An article on the improvements in Andy's home was published in Innovation Review and can be downloaded [here](#)

WEBINAR SPONSORSHIP

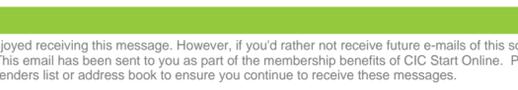
To date, CIC Start Online has attracted over 1,340 members from over 1,020 organisations comprising construction clients, building designers, contractors and other professionals with business links to the sector. Our FREE interactive online webinars are watched across the United Kingdom and in 35 other countries: Australia, Bosnia and Herzegovina, Bulgaria, Canada, China, Costa Rica, Croatia, France, Germany, Ghana, Greece, India, Iran, Iraq, Ireland, Italy, Kenya, Libya, Nevis, New Zealand, Nigeria, Norway, Philippines, Portugal, Qatar, Saudi Arabia, Serbia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, United Arab Emirates, USA and Vietnam.

The event adverts are published on our website, e-news and in many professional networking groups. 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 call 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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