



"The Circular Economy - New Opportunities in Design and Construction"

Friday 1st June 2012 - **Registration is open now**

Location: University of Strathclyde, Glasgow

Time: 0930 - 1630

Summary:

This one-day conference will explore opportunities for Scottish SMEs involved in the design and construction industry around a new economy that is emerging based on design and innovation. The circular economy is a generic term for an industrial economy that is, by design or intention, restorative and in which materials flows are of two types, biological nutrients, designed to re-enter the biosphere safely, and technical nutrients, which are designed to circulate at high quality without entering the biosphere.

The term encompasses more than the production and consumption of goods and services, including a shift from fossil fuels to the use of renewable, and the role of diversity as a characteristic of resilient and productive systems. In broader terms, the circular approach is a framework that takes insights from living systems. It considers that our systems should work like organisms, processing nutrients that can be fed back into the cycle – whether biological or technical - hence the “closed loop” or “regenerative” terms usually associated with it.

Speakers:

09:30 Breakfast and Registration		
09:25	Welcome and Introduction	David Grierson University of Strathclyde Glasgow
09:30	The Ellen MacArthur Foundation	Dame Ellen MacArthur
10:30	The Circular Economy: Practice and Opportunities	Jamie Butterworth CEO, Ellen MacArthur Foundation
11:15	Towards Zero Waste in Scotland	Iain Gulland Director, Zero Waste Scotland
11:45 Sponsor's Videos, Tea & Coffee		
12:00	Introduction to Research Work	Karen Munro University of Strathclyde Glasgow
12:05	Research: Circular Economy for Product Development SMEs	Hilary Grierson & Ivan Hall Barrientos University of Strathclyde Glasgow
12:25	Research: Low Technology/High Performance Architecture	Bianca-Daniela Ion University of Strathclyde Glasgow
12:45	Research: Circular Economy Game and Tour	Claire Hyland University of Strathclyde Glasgow
13:05 Lunch		
13:30	Mean, Lean, Green	Karen Pickering Page/Park Architects, Glasgow
14:00	EMF Founding Partner Presentation	TBC
14:30	Circular Economy Workshops: Introduction	Jamie Butterworth CEO, Ellen MacArthur Foundation
14:40 Circular Economy Workshops:		
- Skills in Product Design - New Business Models - Reverse Cycles and Cascades - Cross-Cycle and Cross-Sector Collaboration		
16:00	Final Plenary Session & Ongoing Engagement	David Grierson, University of Strathclyde Glasgow
16:30 Thanks and Close		
Wine Reception		

The delegate pricing is as follows:

CIC Start Online Member, one delegate = **£125**
 CIC Start Online Members, group of two or more delegates = **£99 per delegate**
 Non-member, per delegate = **£150**

To register, please complete our online booking form at www.cicstart.org

You can exhibit at this conference for only £100 in addition to the delegate fee. [Please visit our website for more information.](#)

WEBINAR



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"Life Cycle Carbon Analysis of Novel Board Material"

Date: 2nd May 2012
Time: 12:30 - 14:00 (BST / GMT+1)
Venue: K501, Buchanan House, Glasgow Caledonian University, Glasgow, G4 0HG.

Summary:

Duncryne Ltd was established in April 2011 to source and supply sustainable building materials. The company was formed by two experienced property professionals in conjunction with a Scottish owned, Far East sourcing company based in Shanghai.

The company's principal product is Econicboard, a versatile high performance board which surpasses the performance criteria of other traditional building boards.

Econicboard is non toxic and free from formaldehyde, benzenes, solvents and oil based chemicals. It is manufactured using high quality raw materials consisting of magnesium oxide, magnesium chloride, perlite, recycled soft wood and water bound together with a fibrous mesh to create a durable and versatile board with the following UKAS tested and approved attributes:

- Euroclass A1 Non- Combustible EN13501-1:2007
- Fire Resistant BS 476: Part 22
- Category 1 Racking Strength BS EN 594:2011
- Severe Duty Impact Rating BS 5324
- Resistant to mould and fungal growth BS 6399 Part 2
- Dimensionably stable when exposed to moisture
- Exceptional bonding surface

In addition Econicboard has a very low vapour resistance of 1.2MN/g making it ideal for use in “breathable” construction. Given the numerous potential applications for such a versatile product Duncryne wished to evaluate its embodied carbon to verify its sustainable credentials before marketing it as a “green” material.

A Life Cycle Analysis of the carbon emissions associated with Econicboard was carried out by Glasgow Caledonian University and funded through the CIC Start programme. The results of the assessment process will be presented including a comparison with equivalent use products such as OSB, Plywood and MDF.

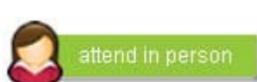
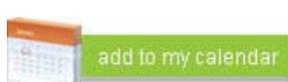
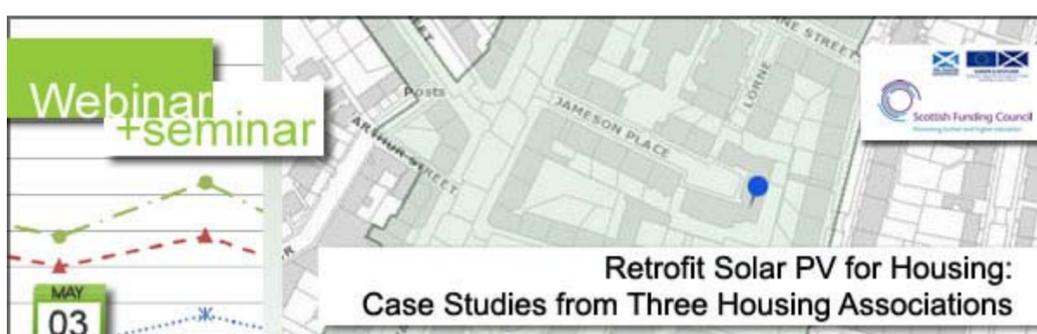
Speakers:

Dr Charles Russell, Glasgow Caledonian University
David McBeth, Duncryne Ltd

Booking:

To book your place at this event, please click "[attend in person](#)" or "[attend online](#)" above

WEBINAR



"Retrofit Solar PV for Housing, Case Studies from Three Housing Associations"

Date: 3rd May 2012

Time: 12:30 - 14:00 (BST / GMT+1)

Venue: K505, Buchanan House, Glasgow Caledonian University, Glasgow, G4 0HG.

Summary:

The Scottish Government Draft Electricity policy statement 2010 set out the latest position on Scotland's future electricity mix including an update on the Scottish approach to Energy Efficiency and microgeneration as developed in the Energy Efficiency Action Plan. The Energy Efficiency Action Plan reaffirmed the Scottish Government's ambitious energy efficiency and microgeneration agenda for Scotland and set out our wide ranging programme of activity on behaviour change, household, business and public sector energy efficiency, infrastructure, skills, and transport.

This framework furthers the governments climate change, economic and social ambitions. It will drive the cost effective action required if Scotland is to meet its challenging statutory emissions reduction targets of at least 80% by 2050 and 42% by 2020, as set out in the Climate Change (Scotland) Act 2009 and introduces a headline target to reduce Scottish final energy consumption by 12% by 2020, with an indication of how this will be monitored.

This webinar will bring together three feasibility studies related to the adequate sizing and economic viability of solar photovoltaic technology onto current housing stock belonging to three housing associations. Various housing types were analysed for their adequate orientation and roof restrictions together with the appropriate economic calculations for viable pay back periods in line with technology capital cost, government funding and maintenance costs.

The studies were completed after appropriate filtering of all the housing stock belonging to the three housing associations. This work was conducted with housing staff who were familiar with the location of homes. Various building visits followed where a photographic study was completed and various technical drawings were retrieved to aid the calculations.

The reports have been adapted to the recent changes in legislation and government funding by analysing the economic pay back periods and the variation of tariffs. These reports were conducted at different stages from summer 2011 and the start of 2012 where variations of tariffs have been applied impacting accordingly to the results.

Speakers:

Julio Bros Williamson, Scottish Energy Centre – Edinburgh Napier University

Jon Stinson, Scottish Energy Centre – Edinburgh Napier University

Michael Hui, Malcolm Homes

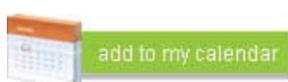
Wendy Farmer, Port of Leith HA

John McMorrow, Easthall Park Housing Co-operative

Booking:

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Summary:

The European Energy Centre (EEC) works with the United Nations Environment Programme (UNEP) in educating professionals and technicians in renewable energy, refrigeration and heat pumps. As explained at www.EUenergycentre.org, the EEC works with all major universities, institutes and organisations worldwide - such as Edinburgh Napier University, the leading American association ASHRAE, the European association AREA, the intergovernmental International Institute of Refrigeration IIR representing 61 countries worldwide - and through our leading experts we promote best practice and ensure high standards in the industry are always met. The EEC is a leading provider of renewable energy training courses, those can be viewed at <http://www.euenergycentre.org/training>.

Heat pumps is an important technology we teach and promote to professionals and technicians working in the heating, air conditioning and related sectors, such technology has increased of importance especially as the European Commission in the more recent years has categorized heat pumps as a renewable energy technology, as long as a certain efficiency is met. As per all renewable energy technologies, the better the efficiency the more important those become to help meet national and European renewable energy and energy efficiency targets. Centro Studi Galileo, as a leader in Italy, and with its strong presence in Europe with the European Energy Centre based in Edinburgh (UK), is always keen to promote and publish important new technologies to share with its large network of professionals, leading experts and technicians.

As part of a CIC-Start funded project the Director of European Energy Centre, Mr Paolo Buoni collaborated with Professor Tariq Muneer and Miss Lorraine McCauley, both of School of Engineering and the Built Environment, Edinburgh Napier University with the view to undertake a feasibility study for achieving higher heat pump COP through the use of roof-top thermal solar collectors. This webinar shall present those results which may be divided into four main development areas; an investigation into the on-site solar and ground energy resource, an analysis on the influence of the solar collector in achieving higher heat pump COP, a development of a simulation tool for the identification of the optimum solar collector area and an annual energy consumption using the heat pump. A collection of manufacturers' data from various heat pumps and solar collectors was carried out in order to test the performance of the different technologies.

This webinar will show that the use of solar collector in northern latitude country has little impact on the heat pump performance improvement in winter. However, the system works well in summer. The system is more suitable for cold countries with high irradiance, e.g. Pyrenees, Alps, south of France, Italy and North of Spain.

Speakers:

Prof Tariq Muneer, Edinburgh Napier University

Paolo Buoni, The European Energy Centre

Booking:

To book your place at this event, please click "[attend in person](#)" or "[attend online](#)" above

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Edinburgh Centre for Carbon Innovation Events:

- SME EnviroApp Social, 1st May 2012

- VIBES Awards 2012 - 10th May 2012

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- 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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