European Union
European Regional Development Fund

University of Salford MANCHESTER

Session Details & Agenda

Tuesday Afternoons from 13.00 from 13th April until 11th May

13.00 onwards (Subject to last minute changes)
Location: Online via Zoom. The link is different for each session.

Got Questions or need local Zoom dial-in numbers?
Call Nigel Blandford on 07799 718019 in the first instance.

This workshop has been part-funded by the European Regional Development Fund (ERDF) and supported by the Institute of Engineering and Technology

IET The Institution of Engineering and Technology

ENERGY HOUSE 2.0

Introduction To Retrofit- Tuesday 13th April, 13.00 -14.00

Link: https://us02web.zoom.us/j/86019420735 **Meeting ID:** 860 1942 0735

Time	Title & Outline	Delivered by
13.00-13.03	**Welcome**	Joe Flanagan University of Salford
13.03-13.30	**Introduction to Retrofit**	Prof. Will Swan University of Salford
13.30-13.35	**Outline of PAS 2035 Session**	Prof. Will Swan
13.35-13.40	**Outline of Building Performance Session**	Prof. Will Swan
13.40-13.45	**Outline of Low Carbon Heating Session**	Nigel Blandford University of Salford
13.45-13.50	**Outline of Smart Homes Session**	Nigel Blandford
13.50-13.55	**Q & A**	All
14.00	**Close**	Prof. Will Swan

Workshop Speakers

Joe Flanagan
Joe spent his early career in manufacturing as a product manager for a technical ceramics supplier which led to a number of years in consultancy working for a variety glass, steel and ceramics manufacturers, helping to develop process efficiency and energy efficiency programmes. More recently he was Head of Energy and Environment Technologies at the Northwest Regional Development Agency developing policy and managing grant programmes to support the growing environmental services sector in the region. He is currently the project manager for the ERDF-supported £16m Energy House 2.0 laboratory at the University of Salford.

Prof. Will Swan
Will Swan is the Director of the Energy House Laboratories at the University of Salford, having led the energy and buildings research team at the university for 10 years. The labs include the unique Salford Energy House, the Smart Meters Smart Homes Lab, the Thermal Measurement Lab and the forthcoming £16m Energy House 2.0. He has been a Fellow of the Centre for Refurbishment Excellence, a founder member of the Building Performance Network and has undertaken a large number of international and UK based research projects. Will is widely published in academic journals and the work of the EHL has been presented in national and international media, including the BBC, Sky News and Reuters.

Nigel Blandford
Nigel's early career path became focused on woodland management and forestry and this led him to become involved in biomass heating very early on. Nigel ran the NW Biomass Project for Envirolink NW and also his own company, Brilliant Bioenergy. More recently he has expanded into broader renewable heating working on the National Trust's renewable heat project, Cheshire East Council on deep geothermal and for Electricity North West looking at carbon reduction in their own operations. Nigel is now a Research Assistant on the Energy House 2.0 project.

PAS 2035 - Tuesday 20th April, 13.00 – 16.05

Link: https://us02web.zoom.us/j/87987195746 **Meeting ID:** 879 8719 5746

Time	Title & Outline	Delivered by
13.00-13.03	**Welcome & Introductions**	Joe Flanagan University of Salford
13.03-14.00	**Retrofit & PAS 2035**	David Pierpoint Retrofit Academy
14.00-14.15	**B2B Networking**	All
14.15-15.10	**Retrofit Assessor**	Richard Fitton University of Salford
15.10 -16.05	**Retrofit Delivery**	Jonathan Atkinson Carbon Coop
16.05	**Close**	David Pierpoint

Workshop Speakers

David Pierpoint
David founded The Retrofit Academy CIC in 2016, following over two years as CEO at CoRE, the former centre of excellence for domestic retrofit. At CoRE, David led submissions to the Bonfield and Hansford Reviews that were highly influential in changing the direction of the energy efficiency sector. Prior to CoRE, David spent over a decade running sustainability and construction-related exhibitions and conferences. David has an MBA with Distinction and an MPhil in Modern History.

Dr Richard Fitton
Richard holds a PhD in Building Physics and is also a chartered building surveyor. He leads a task group for the development of international standards around energy performance. He is also active the International Energy Agency studying the use of smart meter data to provide energy efficiency data for dwellings. He holds a place on the SAP Scientific Integrity Group at the Building Research Establishment (BRE) which oversees the domestic energy model used in the UK. Richard is also the technical lead for the new Energy House 2 project, a building physics test lab.

Jonathan Atkinson
With a background in environmental science and investigative research, Jonathan is one of the co-founders of Carbon Co-op. He has over 10 years experience of working with householders to help them to understand and overcome the key barriers to commissioning and carrying out domestic retrofit works.

Building Performance - Tuesday 27th April, 13.00 – 16.00

Link: https://us02web.zoom.us/j/82284424998 **Meeting ID:** 822 8442 4998

Time	Title & Outline	Delivered by
13.00-13.03	**Welcome**	Joe Flanagan University of Salford
13.03-13.10	**Introduction to Building performance**	Dr Richard Fitton University of Salford
13.10-14.00	**New and innovative methods of measuring the energy performance on site and remotely.**	Luke Smith, Build Test Solutions
14.00-14-30	**B2B Networking**	All
14.30-15.00	**How do we develop a need and marketplace for Building Performance Evaluation.**	Ross Holleron, Building Performance Network
15.00-15.30	**Rapid testing the global heat loss of a dwelling.**	Tom Fenton; Veritherm
15.30-16.00	**Panel Discussion**	All speakers
16.00	**Close**	Dr Richard Fitton

Workshop Speakers

Dr Richard Fitton
Richard holds a PhD in Building Physics and is also a chartered building surveyor. He leads a task group for the development of international standards around energy performance. He holds a place on the SAP Scientific Integrity Group at the Building Research Establishment (BRE) which oversees the domestic energy model used in the UK. Richard is also the technical lead for the new Energy House 2.0 project, a building physics test lab.

Luke Smith
Luke is a driven and highly motivated Architectural Technologist turned Director, passionate about improving the performance and quality of buildings through in-situ measurement and feedback mechanisms. Together with colleagues he seek to challenge and advance technical and cultural norms, all in the interest of closing the design vs. as built performance gap.

Ross Holleron
Until his recent return to the UK, Ross Holleron was Head of Building Research, Knauf Energy Solutions BE, in Belgium. Previously, he was Projects Director at the Zero Carbon Hub and an Associate Director, Building Research Establishment. Ross is now the Building Performance Network's Development Director working with it's Members and partners, forging new working relationships.

Tom Fenton
Tom is currently the CEO at Veritherm, which has a rapid testing solution that can measure building performance in just twelve hours, helping to bridge the performance gap in buildings. This has the potential to transform the way energy performance is assessed, ensuring EPC ratings are supported by real evidence, in favour of theoretical design assumptions. Tom is also Operations Manager and BIM Champion at MFDS Ltd, a family run company providing the construction industry with high quality CAD drawings for traditional and contemporary envelope systems.

Low Carbon Heating - Tuesday 4th May, 13.00 – 16.15

Link: https://us02web.zoom.us/j/82892819949 **Meeting ID:** 828 9281 9949

Time	Title & Outline	Delivered by
13.00-13.03	**Welcome**	Joe Flanagan
13.03-13.30	**Introduction to low Carbon Heat**	Nigel Blandford University of Salford
13.30-14.00	**Heat Pumps - An Outline**	Nathan Van Gambling Beta Talk
14.00-14.30	**Air Source Heat Pumps - Case Studies**	David Kemp Procure Plus
14.30-14.45	**B2B Networking**	All
14.45-15.15	**Ground Source Heat Pumps Case Studies**	Andy Louth Groundtherm
15.15 -15.45	**District Heating**	Gemma Dyson & Glenn Harrison; Vital Energi
15.45-16.15	**Other Low Carbon Heating Technologies**	Nigel Blandford
16.15	**Close**	Nigel Blandford

Workshop Speakers

Nigel Blandford
Nigel's early career path was in forestry & biomass heating. More recently he has expanded into broader renewable heating working on the National Trust's renewable heat project, Cheshire East Council on deep geothermal and for Electricity North West looking at carbon reduction in their own operations. Nigel now works on Energy House 2.0.

Nathan Van Gambling
Nathan comes from a family background in heating. His father, grandfather and great Uncle all had careers in energy and heating. While a qualified heating engineer and plumber, Nathan now concentrates on training. His company BetaTalk is the recent winner of the British Renewable Energy Awards 2020 communication category.

David Kemp
David has spent the past 15 years working in client facing roles within public and private sector organisations delivering programmes and bespoke projects. He has a keen interest in sustainable heating and in his current role at Procure Plus has seen the role out of heat pumps into the social housing sector.

Andy Louth
Andy initially began work on the drilling side before becoming immersed in all aspects of design and installation. Since then he has been dedicated to providing expert provision of renewable solutions to domestic and commercial clients and architects – as well as involving himself heavily in industry education and regulation. He works with Ground Source Heat Pump Association and is on their Council.

Gemma Dyson & Glenn Harrison
Gemma has led Vital Energi's bids for successful low carbon energy schemes at Paddington Village for Liverpool City Council, University of Keele, University of Sheffield, University of Edinburgh and Glenrothes Heat Network for Fife Council. Glenn works with heat network operators and suppliers to identify opportunities for network data management and consumer management platforms. Access to performance and operational data from network assets helps shape consumer behaviour and drive efficiencies in system operation.

Smart Homes - Tuesday 11th May, 13.00 – 16.20

Link: https://us02web.zoom.us/j/87897187750 **Meeting ID:** 878 9718 7750

Time	Title & Outline	Delivered by
13.00-13.03	**Welcome**	Joe Flanagan University of Salford
13.03-13.05	**Introduction to Smart Homes**	Dr Ioannis Paraskevas University of Salford
13.05-13.20	**A brief description of the Electricity Supply Network**	Nigel Blandford University of Salford
13.20-14.15	**Energy savings on heating using the Time-of-Use (ToU) tariffs**	Dr. Karolis Petruskevicius Evergreen Energy
14.15-14.30	**B2B Networking**	All
14.30-15.25	**Products and services for the Smart Home ecosystem**	Matt Roderick Wondrwall
15.25-16.20	**A Home Energy Management System (HEMS)** An introduction to the ConnectaX platform.	Jose Figueiredo Critical Software
16.20	**Close**	Dr. Ioannis Paraskevas

Workshop Speakers

Dr Ioannis Paraskevas
Ioannis Paraskevas is a Research Fellow working in the area of Smart Meters and the Smart Home ecosystem and is running the Smart Meters > Smart Homes (SMSH) research and innovation laboratory at the University of Salford. Ioannis holds a BEng, MSc and PhD all in the wider area of Electronic Engineering.

Nigel Blandford
While Nigel's early career path was in renewable heating, more recently he worked at the District Network Operator, Electricity North West. Nigel is now a Research Assistant on the Energy House 2.0 project.

Dr Karolis Petruskevicius
Karolis is Head of Smart Home at Evergreen Energy and previously founded of Homely Energy, a smart thermostat company integrating heat pumps with variable electricity tariffs. Karolis holds a BSc degree in Economics and is currently completing PhD in Power Networks. He has previously interned at Goldman Sachs in sales and trading.

Matt Roderick
Previously founding executive of the digitisation of GB's last analogue industry (Smart Meter rollout) and CTO of Vodafone's revolutionary M-PESA service (mobile banking). Now focused on enabling businesses to take advantage of wider energy transformation in how we all consume, store and generate energy. Founder and CEO of n3rgy data and CTO of Wondrwall Energy.

Jose Figueiredo
José is a software engineer, with a Master's in Software and Computer Engineering. He has participated actively in the development and launch of broadband IoT technologies, such as NB-IoT. More recently, at Critical Software, José has led several R&D projects for the UK's Smart Metering Implementation Programme, of which the ConnectaX project is part of.