

AUE Conference 2011 – Speaker Profiles

1. Edinburgh University Library Design Team

Design work commenced in August 2005 with the works being carried out in seven separate phases whilst the library remains in operation throughout the construction. The first phase commenced March 2007 with the final phase due for completion in November 2012

The existing services are being replaced in their entirety throughout the building; however due to the non-sequential order of the phasing works the existing system and new system are required to run in tandem during the works with a phased changeover as the project progresses.

A District Cooling System has been located on the library roof which supplies the library and the adjacent buildings within the George Square campus, making a significant contribution to the university's sustainable energy goals and the BREEAM rating of 'very good' that has been achieved to date.

2. Professor Ian Bryden, Edinburgh University

"The Development of Marine Renewable Energy in Scotland"

Scotland has been at the forefront of wave and tidal current power development since the pioneering work of Stephen Salter in the 1970s and 1980s. Now, with the exciting activity at the European Marine Energy Centre in Orkney and on-going commercial and academic developments, Scotland's place in the evolution of a new energy industry remains central. This talk will give a brief history of the marine renewable energy sector from a Scottish perspective and will inform the listeners of present day "State of the Art" activities. The presenter will also discuss what the future of marine energy might entail.

Ian Bryden is Head of the Institute for Energy Systems at the University of Edinburgh and holds the Chair of Renewable Energy in the School of Engineering. He has been involved in marine renewable energy research since undertaking his doctoral research in wave energy systems in 1980. He is presently leading the development of a new world leading wave and tidal current test facility in Edinburgh, "The All Waters Current and Wave Test Facility" and is a non-executive director of the European Marine Energy Centre (EMEC). He is a fellow of the Royal Society of Edinburgh, the Institute for Marine Engineers, Scientists and Technologists, and the Institute of Physics.

3. Mike Sheppard, Lancaster University

Mike is a Chartered Engineer, a member of the Chartered Institute of Building Services Engineers and Fellow of the Institute of Hospital Engineers and Estate Managers. He is Deputy Director of Facilities at Lancaster University, where he has worked for 4 years. Prior to this, Mike worked for the BBC.

Mike is currently involved in the construction of a 2MW wind turbine beside the M6 motorway on the University estate. This presentation covers the planning process and, in particular, the challenges the University has encountered - site constraints, planning regulations, dealing with the tendering process, handling the unexpected - and how they are being dealt with.

4. BSRIA, Soft Landings

"Soft Landings" is an emerging professional service that enables project teams to take greater responsibility for the performance of the buildings they design. The Soft Landings process requires Design and Build teams to migrate from a fixation on technical inputs to a new focus on operational outcomes: maintainability, manageability and usability.

The presentation will describe how the Soft Landings work steps enable designers and constructors to remain involved with buildings beyond practical completion, to assist the client during the first months of operation and beyond, to help fine-tune and de-bug the systems, and to ensure the occupiers understand how to control and best use their buildings.

5. Double Exhibitor Slot

(a) Trend Control Systems Limited

We would like present a new Energy focused CPD to the Engineers, general details of the CPD are to help building managers understand how a BEMS can support energy management plans.

The CPD will illustrate the practical steps that can be taken to manage their energy and carbon usage more efficient. Managing energy and CO2 emissions is now a business imperative within the UK, particularly in light of new CRC regulations. If you consider that "up to 84% of a building's energy usage can be controlled by a BEMS" it stands to reason that optimizing your building energy management system (BEMS) will quickly deliver significant energy savings and reductions in carbon emissions.

(b) Camfil Farr Ltd

Title : "Low Energy Air Filters"

1. General introduction covering why we need air filters, The energy consumed by Air Filters. & An Energy Efficient System.
2. Powerpoint presentation covering:-
 - a. Air Filter System life cycle costing (LCC) including case studies.
 - b. F7 + F7 (Low Energy Air Filters & improving air quality)
 - c. Energy Saving and Carbon Reduction.
 - d. Study of energy consumption in centralised air systems focusing on types of air filter.
3. Air filters can contribute in meeting latest energy performance building regulations.
- 4.. Arriving at a fine HVAC filter specification that will ensure optimum performance for minimum energy consumption.
5. Payback time. / Quick Wins - Return on Investment. What is the benefit
6. Air Conditioning Inspections
7. Question and Answers session

6. Damien Hughes, Liquid Thinking

Damian Hughes is the author of five books, Liquid Thinking, Liquid Leadership, The Survival Guide to Change, Change Catalyst and Change Inspiration. Hughes is also former England schoolboy footballer and Manchester United football coach..

He now runs his own change management consultancy, LiquidThinker Ltd, helping a wide range of individuals; teams and industries achieve similar employee engagement and success. He also works as sports psychologist for GB, England and Warrington Wolves Rugby League teams.

He also runs a Manchester inner-city youth club and has also been nominated for the 2007 William Hill Sports book of the year award for his biography of boxing great Sugar Ray Robinson and again in 2010 for his acclaimed biography of Thomas Hearn.

He was recently appointed as a Professor of Organisational Psychology and Change for Manchester Metropolitan University.

His innovative and exciting approach has been praised by Sir Richard Branson, Muhammad Ali, Jonny Wilkinson and Sir Alex Ferguson.

7. Ian Caldwell, King's College London

This session will describe the work of King's College London in achieving sustainable refurbishment over the last 8 years at its Strand campus in central London. The phased series of projects includes the southern wing of the College's original 1829 building (winner of the 2006-7 Green Gown Award for Sustainable Construction), an adjacent 1970's building and the late 18th century east wing of the iconic Somerset House:

- making best use of the building's original character and design
- introducing new technologies and controls
- strategies to minimise the need for cooling and heating
- integrating with campus services and transport strategies
- lessons learnt for future projects.