

BSE Public CPD Lecture – Urban scale sustainability - buildings to cities' on 6 November 2009

Organized by the Department of Building Services Engineering, a public CPD lecture delivered by Professor Phillip Jones on **Textile-Cement Composites from baskets to sustainable homes and jet engines** was held on 6 November 2009 (Friday).

Professor Phillip Jones is Head of School and Director of the Centre for Research in the Built Environment at the Welsh School of Architecture, Cardiff University. His research activities are in the field of low carbon design and sustainability in the built environment and he has carried out numerous funded research projects and design consultancies in UK, Europe, Malaysia, Middle East and China. He is working closely with the Welsh Assembly Government providing a research base to inform the development of their low to zero carbon building programme. He chairs the Wales Low Carbon Research Institute (LCRI), which comprises a consortium of six Welsh university partners, and which has a £40+ million research programme in the areas of low carbon built environment, hydrogen technologies, marine energy, bioenergy, large scale power generation and solar PV. He is chair of the European COST Action C23, Low Carbon Urban Built Environments (L-CUBE) with nineteen European partner countries. He has held honorary and visiting professorships at Chongqing University, Xian University of Architecture and Technology, University Putra Malaysia, and Hong Kong Polytechnic University, and is an Honorary Fellow of the Royal Society of Architects in Wales.



CPD public lecture by Professor Jones

If we are to achieve national and international targets for carbon dioxide emission reductions, we must approach the built environment at an urban scale as well as at an individual building scale. In this lecture, Professor Jones introduced the main issues associated with urban scale sustainability focussing on the built environment. The modelling tools that have been developed, to consider the existing built environment as well as for the design of new urban development were described. This lecture focused on how these models can be used to provide evidence at an early design and master planning stage in order to develop guidelines and set targets to inform decision making. Case studies from the UK, China and the Middle East were used to illustrate the discussion.