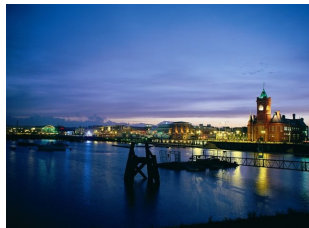


## Spring 2009 Members' Meeting

**The CIOB CPD accredited Construct IT For Business Spring 2009 Members' Meeting will be held in conjunction with the University of Wales Institute, Cardiff on the 21<sup>st</sup> May 2009. The theme of the meeting will be on the Management of Information on Infrastructure Projects**

The event will kick off spotlighting on Crossrail - a new railway proposal, which will deliver a world-class, affordable railway, with a high frequency, convenient and accessible train service across the capital from 2017 for London and the South-East. Through a case study for design information coordination & control, Scott Wilson will discuss the ICT in use and the BS1192 information processes being deployed and reflect on how successful they have been in meeting their objectives to improve the coordination & control of design information on the project.

Next Bovis Lend Lease will explain how they have used management systems, and the use and flow of management information on Media City/ London 2012 Athletes Village to drive efficiency through their supply chain. They will further highlight how the use of system driven information has resulted in a tangible improvement that have aided the drive and implementation of 'Performance led Procurement'. This will be followed by Lyndon Scaffolding providing a contractor's perspective of how they have utilised 'Performance-led Procurement' approach to drive performance improvement from their side of working with Bovis Lend lease on Media City/ London 2012 Athletes Village.



Reducing carbon emissions is becoming an increasingly key environmental issue facing the global challenge of climate change. The introduction of the Carbon Reduction Commitment in 2010 brings with it further obligations for public bodies to reduce their carbon emissions, energy use, etc. In light of this, the first session following lunch will explore through client, contractor and consultant perspectives, the challenges in relation to the fifth asset management plan period (AMP5) such as the balance that will need to be struck around the aquatic and atmospheric environments and the role of ICT to facilitate in this process.



In the penultimate session Taylor Woodrow will present the results of the recently completed European part-funded Manubuild project in relation to managing logistics information. Manubuild was concerned with the delivery of inspirational and affordable housing design through a highly efficient process that reduces wasted labour, time and materials.

The final session will conclude with the Highways Agency providing an insight to the information issues associated with asset managing the strategic road network in England. Valued at over £81 billion, this strategic road network currently carries a third of all road traffic in England and two thirds of all heavy

freight traffic providing a vital service to commerce and industry and to the lives of individuals and communities.

The meeting is free to Construct IT Members and £100 for non-members.

Please contact Chris Barker ([chris.barker@ccinw.com](mailto:chris.barker@ccinw.com); Tel: 0161 295 5076) for registration or further details of the event. Further information is available at the Construct IT Website <http://www.construct-it.org.uk>

**The Autumn 2008 Members Meeting was held in conjunction with buildingSMART at the Old Ship Hotel, Brighton on the 20th November 2008. The theme of the meeting was focused on Virtual and Building Information Modelling towards Integrated Project Delivery.** A summary together with the presentations from the event are available online.

## TEMPUS – Education and Culture



The **Trans-European mobility scheme for university studies (TEMPUS)** is a programme that supports the **modernisation of higher**

**education and creates an area of co-operation in countries surrounding the EU.** The TEMPUS EU-funded project is progressing with the design and implementation of a state-of-the-art M.Sc. IT management in construction programme within Damascus University, Syria. The project is being carried out by the University of Salford in collaboration with Damascus University (SY) and Lyon University (FR). The project has successfully reached its final stage having met its objectives along with receiving full approval of the European Commissioner.

Based on this current success, the project team are in the process of submitting another bid for further funds. The aim of TEMPUS2 will be to develop a portfolio of ICT related courses for the Construction & Engineering domain, whilst also establishing Damascus University as a major centre of excellence for ICT in construction. This will pave the way for extending the competence development for producing PhD programmes in this area.

## Welcome New Member

**Construct IT are pleased to welcome the following new member to the network.**

**RIB UK Ltd**



RIB UK Ltd is a provider of project management software solutions, bridging the gap between computer-aided design applications (CAD) and enterprise resource planning (ERP) systems. Their software solutions span the entire value chain of construction and infrastructure projects - including project conception, planning, budget preparation and tender processing, estimating, coordination, controlling, procurement and maintenance.

## Knowledge Driven Industries

Construct IT jointly hosted a seminar on the 13<sup>th</sup> May with the Research Institute for the Built and Human Environment (BuHu) and Management and Management Sciences Research Institute (MaMS) of the University of Salford on **Knowledge Driven Industries** in relation to **Improving Organisational Competitiveness**.

Professor Charles Egbu, Chair in Project Management and Strategic Management in Construction at the School of the Built Environment within the University of Salford, kicked the event off by exploring the concepts, benefits, and tools and techniques of **knowledge mapping for improved decision making in sustainable developments**. Examples of glass recycling and waste minimisation projects were used to present some of the benefits and challenges of effective knowledge mapping. Dr. Maria Edith Burke from the University of Salford's Business School with a research interest in the area of Information Management followed by exploring **knowledge sharing for improved organisational competitiveness**. The session focused on identifying key roles of KM in potential future worlds, examining the implications for business and considered the practical barriers to knowledge sharing in European SMEs. In the final session Professor Farzad Khosrowshahi, Director of Construct IT, discussed **modern visualisation techniques in aid of knowledge acquisition**. Some of the tools were introduced and briefly explained with the intention of bringing this relatively new field of science, which is increasingly gaining importance, to the attention of construction professions.

## Awareness, Education and Training

Construct IT were successful in their bid to the Construction Knowledge Exchange Higher Education to Business (HE2B) Innovation Grant in support of continuing to take the established education and training development framework forward into new areas. Construct IT are currently aligning and co-ordinating this project with the efforts of buildingSMART. It is envisaged evolving a series of individual programmes delivered at both an academic and industry level that will collectively provide a comprehensive **BIM awareness, education and training initiative/scheme** towards the **development of industry recognised BIM professionals**.

In conjunction with buildingSMART, this current project is specifically focused on building the awareness of BIM through the development of three packages. Based on the established framework, each of these 'awareness' packages will be targeted at three distinct levels in terms of addressing the key strategic (what/why?/business case), operational/tactical and technological aspects (supporting tools/technologies), respectively. It is proposed that these courses will be delivered both through traditional face-to-face mechanisms along with webcasts/podcasts, etc.

If you would like to be involved in progressing this effort then please contact Dr Jason Underwood at [j.underwood@salford.ac.uk](mailto:j.underwood@salford.ac.uk). Tel: 0161 295 6290.

## CoSpaces – Collaborative Workspaces

The main aim of the **CoSpaces: Innovative Collaborative Work Environments for Design and Engineering** EU funded project is to develop a generic collaborative engineering framework which can support real-time collaboration between geographically dispersed teams working within distributed virtual engineering enterprises.

Over the last few months, the CoSpaces researchers have been working towards combining the various developed technologies

within the same framework. CIT has been extensively involved in the evaluation and testing of the various technologies and workspaces developed for the construction industry.

Please refer to the CoSpaces website <http://www.cospaces.org> for more information and to watch the demonstrations available on line highlighting how the state-of-the-art technologies available in the system provide the three industries of Construction,



Aerospace and Automotive with an environment that supports collaborative working and enable them to effectively arrive at an optimum solution to meet the needs of all those involved in the project team.

In addition to the CoSpaces technologies, an educational training framework on collaboration has been set up with a number of modules and courses available for both the academia as well as the industry to be taught in their educational programmes or to be applied as CPD programmes.

## Manubuild

The **ManuBuild Open Building Manufacturing** R&D integrated project was completed in March 2009. The project promotes a paradigm shift from the current 'craft and resource based construction' towards 'open building manufacturing' that enables highly customised buildings using manufactured, knowledge based components from the open market and assembling them efficiently on site.



The project explored architectural concepts, manufacturing, innovative connections & assembly, ICT support, off-site production, logistics, business processes and training. Although the project was aimed at housing, many of the results are equally applicable to commercial, civil engineering and infrastructure projects. ManuBuild included a number of leading edge ICT developments and Construct-IT is proposing to 'serialise' them for presentation at Members Meetings, starting with logistics at the Spring 2009 meeting.

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