CIB Encouraged Journal

Special Issue

Architectural Engineering and Design Management
Integrated Design and Delivery Solutions (IDDS)

Guest Editors: Matthijs Prins Delft University of Technology, The Netherlands and Robert Owen University of Salford, UK

Architectural Engineering and Design Management, edited by Dino Bouchlaghem, is an international peer reviewed journal that bridges the gap between architecture and engineering practice. The journal covers:

- Specific topics on architectural technology, engineering design and building performance
- Building design management, including planning and co-ordination and information and knowledge management
- Integration of architectural and engineering design
- Issues relevant to both professionals and academics involved in building design and construction.

This special issue of Architectural Engineering and Design Management (AEDM) brings together, for the first time, selected top researchers on IDDS at the level of a respected scientific journal to present a coherent view on the state of the art and future challenges. Within the broader scope of the IDDS movement, the issue focuses more explicitly on design and engineering, which can be considered to be two of the most crucial phases within this context. As a good integral design is the most essential prerequisite for realizing value in the built environment, it also focuses on the role of design and designers within IDDS. The papers included in this special issue offer high quality research and practice-based examples, providing deep insights into IDDS and its future potential. IDDS not only asks for skilled people, new ways of working and new ways of procurement but also, in essence, has the potential to cause significant changes in the professional roles of the building participants, especially in the role of architectural designers as the prime model makers and possible owners of the BIM model. Architects who appropriately develop their skills, attitudes, organizations and business model may regain their historical central role within the building process; not as the master builder, but as being the first and visionary IDDS model builder, equal among others of the team, but leading the motivation to add whole-life value.

The special issue focuses on the most recent developments in ICT, such as the application of BIM in construction to a higher level of maturity; IDDS.
However, rather than focusing solely on the technology aspects, the effects of such technologies on integration of design and construction processes and on collaboration between different professions are addressed. The ways that people work and collaborate, share knowledge, enhance their skills and effectiveness, improve processes in terms of lean and sustainable construction, as well as their changing roles and new ways of contracting and procurement, are investigated. Additionally, the ways that such technologies are being employed to create better, more sustainable buildings with added value for clients, stakeholders and society as a whole are surveyed.

At this time of dramatic, if sporadic, change in the construction sector it is vital that those involved are aware of how their rivals and collaborators are developing, and how they can adapt and develop themselves. This issue is of invaluable importance for all those in construction, including sector policy makers, clients, planners, designers, engineers, constructors, manufacturers, suppliers, subcontractors, operators and users. Those engaged in developing a strategic vision for the future on the employment of new technologies, the paradigm shift and cultural changes they will bring, and the business change implications, will need such knowledge in order to contribute to sustainable buildings with higher delivered value, and to maintain competitive advantage.

**Guest Editors**

Matthijs Prins: Associate Professor of Design & Construction Management, Department of Real Estate & Housing, Faculty of Architecture, Delft University of Technology The Netherlands. Matthijs is Joint Coordinator of the CIB W096 commission on Architectural Management, a member of the core group of the CIB IDDS Priority Theme, and Director of MSc education in the Department of RE&H.

Email: M.Prins@tudelft.nl.

Robert Owen: Senior Research Fellow, Salford Centre for Research & Innovation in the Built & Human Environment, University of Salford UK. Bob is Coordinator of the CIB IDDS Priority Theme; UK Government and international advisor on project, programme and portfolio management and Standards, and on process and systems improvement in the construction sector.

Email: r.l.owen@salford.ac.uk.

**Special Issue Offers**

The following two papers from the Special Issue of the journal are downloadable free from the journal website here until February 2011.

- Content Integrated Design and Delivery Solutions  
  Authors: Matthijs Prins; Robert Owen

- Content Challenges for Integrated Design and Delivery Solutions  
  Authors: Robert Owen; Robert Amor; Mark Palmer; John Dickinson; Clyde B.Tatum; Abdul Samad Kazi; Matthijs Prins; Arto Kiviniemi; Bill East.

A hard-back version of the Special Issue is offered to CIB Members at 30% discount. To purchase this for GBP 34.99 visit here and enter the code CIB when prompted.

CIB Members may obtain 50% off a personal 2011 subscription. This offer will provide subscribers with each 2011 issue in print and online, plus access to six years of online back-file from Volume 1 including the special issue on IDDS, all for GBP 49.99. Order from aedm@earthscan.co.uk.

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