An International Conference at The Building Centre, London
3 – 5 March 2011

CALL FOR PAPERS

Deadline 14 December 2010

Architecture has always been inventive and adaptable. However, our current era is unique in its technological potential combined with societal and environmental challenges. The need to generate sustainability, developments in design techniques and technology advances are leading to the emergence of a new Adaptive Architecture.

The built environment is becoming truly responsive in terms of physical, real-time changes acting under intelligent controls. Adaptive Architecture can be characterized by four key attributes; it is Dynamic, Transformable, Bio-inspired and Intelligence.

Drawing on these themes, the Adaptive Architecture International Conference will bring together leading practitioners, researchers and industry experts who will present projects and research. Presentations will include new types of reconfigurable architecture, and will show how adaptive strategies can extend the cultural potential of architecture, extend a building’s life cycle, enhance energy efficiency and optimize resource utilization.

The conference will be organised into four streams:

**Dynamic Facades**
Next generation, responsive facades will be examined and systems demonstrated that are capable of reducing energy demands, enhancing comfort and integrating energy generation into contemporary architecture.

**Transformable Structures**
Methods to create building-scale structure that change their size and shape will be demonstrated. Speakers will discuss architectural solutions that adapt over different time-scales to economic demands, weather patterns, emergencies or other factors.

**Bio-inspired Materials**
Drawing on incites from the natural world, researchers are creating a new generation of adaptive materials and devices. Speakers will present state of the art research and discuss how nature provides inspiration for design.

**Intelligence**
Speakers will address the challenges of implementing effective control where building automation systems, user interfaces and services can interact seamlessly.
Workshop: Adaptive Architecture and Inhabitation
In addition to the four streams a separate workshop will examine the inhabitation and social motivations in the design and use of adaptive architecture.

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Adaptive Architecture International Conference is looking for papers for all research streams and the Inhabitation workshop. These will be reviewed by the International Peer Review Committee.

A **500 word abstract**, with additional key references, should be submitted by 14 December 2010. Selected submissions will be announced on 7 January 2011. Final papers will be due by 14 February 2011.

Submissions should be sent to adaptivearchitecture@buildingcentre.co.uk

INTERNATIONAL PEER REVIEW COMMITTEE

This comprises:
Philip Beesley, Philip Beesley Architect Inc. and University of Waterloo
Professor Ulrich Knaack, TU Delft
Professor Robert Kronenburg, University of Liverpool
William McLean, University of Westminster
Andrew Scoones, The Building Centre
Holger Schnädelbach, University of Nottingham
Bob Sheil, Bartlett School of Architecture, University College London
Professor Michael Stacey, University of Nottingham

Adaptive Architecture will coincide with the opening of the exhibition
Living Form: the Transformable World of Chuck Hoberman

ORGANISERS

The Building Centre and The Architecture & Tectonics Research Group
of the University of Nottingham

SPONSORS

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