

---

# Symposium Low Carbon Buildings

University College London  
7th July, 2008



## Design, Operational Performance, and the Future Challenges

The problems related to low carbon buildings, their design, operational performance, and the future challenges will be discussed at this event organised by IBPSA-England, CIBSE School Design Group, CIBSE Natural Ventilation Group and The Bartlett at University College London.

This event is supported by UrbanBuzz. The UrbanBuzz - Building Sustainable Communities is a 2 year, £5 million programme that aims to develop new ways of delivering genuinely sustainable forms of development and community in London and the wider Southeast region. UrbanBuzz is the University College London (UCL)-led programme funded by the Higher Education Funding Council for England (HEFCE) and the Department for Innovation, Universities and Skills (DIUS).

## Registration

Registration fee: **£35**, which will cover costs of lunch, refreshments and speakers.

To register, please complete and print the form and return with your cheque (payable to University College London), by 05 July 2008, to:

Dr Dejan Mumovic  
University College London  
The Bartlett School of Graduate Studies  
1-19 Torrington Place  
LONDON WC1E 6BT

The registration form could be downloaded from the following web pages:

<http://www.ibpsa-england.org>  
<http://www.cibse-sdg.org>

---

# Programme

## Venue:

The Old Refectory (conference room) and Haldane Room (exhibition room)  
University College London, Wilkins Building, Gower Street, WC1E 6BT, London

09:30 – 10:00 Registration, coffee, exhibition (Haldane Room)

## Opening Session:

10:00 – 10:10

### Low Carbon Buildings – Motivation and Objectives

Ian Ward, Immediate Past Chairman of IBPSA-England, University of Sheffield

10:10 – 10:20

### Welcome to UCL

Professor Tadj Oreszczyn, Head of the Bartlett School of Graduate Studies, University College London

## Session A: Design challenges of the 21<sup>st</sup> Century

Room: The Old Refectory

Chairman: Professor Jonathan Wright (Loughborough University)

Co-chairman: Dr Mikkel Kragh (ARUP)

10:20 – 10:50

### Keynote 1: Development of New Summer Design Years for London: a 21<sup>st</sup> Century Challenge

Jake Hacker, ARUP

10:50 – 11:15

### The Future Development of the Part L and Part F – regulations for low carbon buildings

Professor Bob Lowe, Professor of Energy and Buildings, University College London

11:15 – 11:40

### Sustainable Cities: Options for Responding to Climate Change Impacts and Outcomes (SCORCHIO)

Professor Steve Sharples, Head of Environment and Sustainability, University of Sheffield

11:40 – 12:05

### Development of a Local Urban Climate model and its application to the Intelligent Development of cities (LUCID)

Professor Mike Davies, Professor of Building Physics and Environment, University College London

12:05 – 13:00 Lunch and exhibition (Haldane Room)

## Session B: Design Approaches for Non-Domestic Low Carbon Buildings

Room: The Old Refectory

Chairman: Dr Malcolm Cook (De Montfort University)

Co-Chairman: John Palmer (Faber Maunsell)

13:00 – 13:30

### Keynote 2: Design for Non-Domestic Low Carbon Buildings

Professor Kevin Lomas, Institute of Energy, De Montfort University

13:30 – 13:55

### Low Carbon Architecture

Professor Bryan Ford, Nottingham University

13:55 – 14:20

### Design Work on Low Carbon Buildings at Hilson Moran

Matthew Kitson, Head of Building Performance Group, Hilson Moran, London

14:20 – 14:45

### Designing Low Carbon School Buildings

John Palmer, Director of Building Research, Faber Maunsell, Chairman of CIBSE School Design Group)

14:45 – 15:10 Tea break and exhibition (Haldane Room)

## Session C: Post Occupancy Evaluation of Buildings

Room: The Old Refectory

Chairman: Paul Eslinger, White Young Green

Co-Chairman: Gordon Hudson, Mott MacDonald

15:10 – 15:40

### Keynote 3: Approaches to Post Occupancy Evaluation of Buildings

Rod Bunn, BSRIA

15:40 – 16:05

### Facility Management: Heelis Building

Nick Hudleston, NVS Division Manager

16:05 – 16:30

### Discover the Secret of Hidden Heat Loss – Stamford Brook Project

Professor Malcolm Bell, Professor of Sustainable Housing, Head of the Centre for the Built Environment, Leeds Metropolitan University

16:30 – 16:55

### Post Occupancy Evaluation of the Frederick Lanchester Library at Coventry University

Dr Birgit Krause, Senior Research Fellow, Institute of Energy, De Montfort University

16:55 – 17:10

### Closure

Dr Malcolm Cook, Chairman of IBPSA-England, De Montfort University

## Exhibition: Energy Related Projects supported by UrbanBuzz:

1. Energy Efficient Refurbishment of Victorian Dwellings (Professor Bob Lowe, University College London)
2. Towards Low Carbon Houses (Professor Malcolm Bell, Leeds Metropolitan University)
3. Carbon Emission from Buildings – an online tool (Judith Kimpian, RIBA and Aedas)
4. Deployable External Installation (Professor Stephen Gage, University College London)

The registration form could be downloaded from the following web pages:

<http://www.ibpsa-england.org>  
<http://www.cibse-sdg.org>

## Towards Low Carbon Buildings Evening Event:

18:00 – 20:00 (up to 50 people by invitation only)

Room: Haldane Room

Hosts: UCL (Professor Tadj Oreszczyn) and IBPSA-England (Malcolm Cook)

## Key speakers:

- Lord Teverson, House of Lords
- Anthony Burd, Head of Building Regulations, DCLG (to be confirmed)
- Chris Twinn, Director of Sustainability, ARUP