



**UK Midlands**  
Chapter



# Zero Carbon Buildings Evening

Date: Wednesday, 15 November 2017  
Time: 18:00 - 20:00  
Location: RT0.25, School of Architecture, Building and Civil Engineering,  
Loughborough University, Loughborough, LE11 3TU  
Booking: <https://goo.gl/cUAGya> (free)  
Inquiry: [ashrae.ukml@gmail.com](mailto:ashrae.ukml@gmail.com)

ASHRAE UK Midlands Chapter and Energy Institute East Midlands in association with Loughborough University welcome you to this joint event.

The event is open for everyone interested in this subject and is free to attend.

### Programme:

18:00 – 18:30 Refreshments and networking

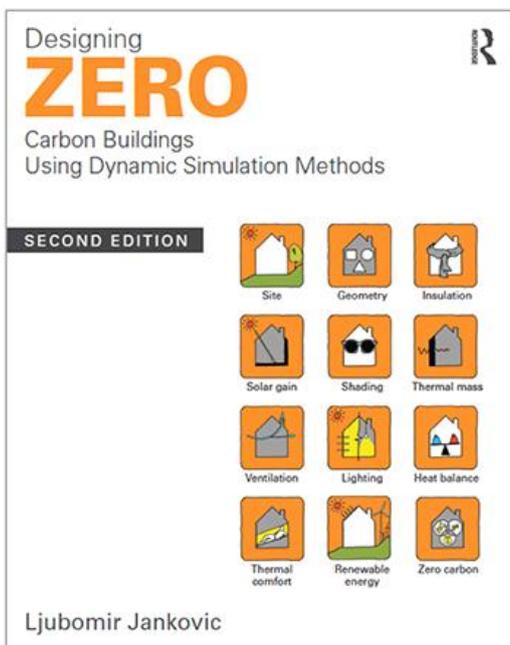
18:30 – 19:15 Design and operation of zero carbon GlaxoSmithKline Elipta Compliance Building  
by Dr Rosi Fieldson, Sustainability Manager, Simons Group

19:15 – 20:00 Designing zero carbon buildings using dynamic simulation methods – a book launch  
by Prof Lubo Jankovic, Director, Zero Carbon Lab, Birmingham City University



**GSK Elipta Compliance Building:** Using Hemp and timber to deliver very low embodied carbon building fabric and operational emissions in a demanding manufacturing sector has demonstrated that new buildings can significantly move away from conventional expectations and deliver outstanding performance.

**Rosi Fieldson** has extensive commercial design and construction experience, working as an Architect and currently managing sustainability strategy and environmental certifications for Simons Group with a wide remit covering issues as diverse as Social Value, waste and energy management. She also undertakes BREEAM assessment for a selected number of projects each year.



### Designing Zero Carbon Buildings Using Dynamic Simulation Methods:

In addition to the application of fundamental principles that lead to a structured method for the zero carbon design of buildings, this considerably expanded second edition includes new advanced topics on multi-objective optimisation; reverse modelling; reduction of the simulation performance gap; predictive control; nature-inspired emergent simulation leading to sketches that become ‘alive’; and on an alternative economics for achieving the sustainability paradigm. The book features student design work from a Master’s programme run by the author. Extended new case studies of zero carbon buildings are featured in the book, including schemes from Japan, China, Germany, Denmark and the UK, and provide the reader with an enhanced design toolbox to stimulate their own design thinking.

**Lubo Jankovic** is Professor of Zero Carbon Design at Birmingham City University, where he conducts multidisciplinary research and directs a research group called Zero Carbon Lab. He has worked on instrumental monitoring, dynamic simulation and environmental design of buildings over a career spanning three decades. He holds a BSc from the University of Belgrade and a PhD from the University of Birmingham, both in Mechanical Engineering, and is a Chartered Engineer, a Member of CIBSE, a Member of ASHRAE, and a Fellow of the Institution of Analysts and Programmers.

