

Seminar on

Modelling Air Movement: CFD Simulation vs. Experimental Methods

30 April 2014

*University College London, Room G06, Roberts building, Torrington Place,
London, WC1E 7JE*

This daylong seminar organised by Building Simulation and Natural Ventilation Groups aims to explore current practices to model air movement within the built environment. This seminar will focus on how different methods can accurately predict air movement and the advantages and limitations of these methods.

Programme

09:30 - 10:00	Registration	
10:00 - 10:15	Introduction	Prof. Hazim Awbi (CIBSE BSG) Mr. Martin Liddament (CIBSE NVG)
10:15 - 11:00	Water Bath Experiments and Salt	Prof. Gary Hunt (University of Cambridge)
11:00 - 11:45	Water Bath Experiments and Salt+Heat	Dr. Shaun Fitzgerald (Breathing Buildings)
11:45 - 12:30	Large Eddy Simulation of Buoyancy-Driven Natural Ventilation	Prof. Malcolm Cook (Loughborough University)
12:30 - 13:30	Lunch	-
13:30 - 14:05	Assessment of the natural air ventilation of buildings in urban area with the CFD tool UrbaWind.	Dr. Stephane Sanquer (Metodyn)
14:05 - 14:40	Wind - Analogue or Digital?	Dr. Wayne Pearce (RWDI)
14:40 - 15:15	The DAPPLE Dispersion Project: Comparison of Full Scale and Wind Tunnel Experiments with CFD.	Prof. Janet F. Barlow (University of Reading)
15:15- 15:50	Building Openings - Smoke Testing vs CFD Modelling	Dr. Jannick K. Roth (WindowMaster)
15:50- 16:00	Discussion & Conclusion	Prof. Hazim Awbi Dr. Shaun Fitzgerald

For questions about the seminar please contact Sahm Sawaf on S.Sawaf@pgr.reading.ac.uk