



Extra Event – Natural Ventilation in Low Energy Building Design - Complying with Part L and Part F

Tuesday 10 November 2009 – venue Wakefield TBC

Ventilation is a critical factor in determining the environmental performance of buildings, from energy use to the health and comfort of the occupants. Natural ventilation schemes allow air movement through buildings without the need for high-energy fans to drive the flow. It is often enhanced by pre-cooling or pre-heating the air, and in some cases it may supplement a mechanical ventilation system to form a hybrid ventilation scheme.

This seminar introduces delegates to the principles and practice of natural ventilation using state of the art laboratory and computer modelling techniques, and monitored case studies. It also gives delegates the opportunity to apply the ideas presented in a series of case studies.

The aims of the seminar are to

- bring together architects and engineers interested in using design concepts for low energy loads for buildings
- introduce the concepts of natural ventilation in buildings and the challenges of its implementation
- provide a forum for current design problems to be discussed
- introduce *new techniques* available for the design of low energy buildings to comply with Building Regulations Parts L and F

Who should attend?

This seminar is aimed at those interested in using design concepts to substantially reduce energy loads for buildings including: architects, building services engineers, engineering consultants and environmental engineers.

Agenda

- 1) Introduction and overview
 - a. Physics and principles – fundamentals of low energy buildings and concepts of natural ventilation
 - b. Practical computer and laboratory modelling techniques – demonstrations and videos of experiments, with applications to buildings
- 2) Case studies including:
 - a. Comparison of economics for a naturally ventilated versus mechanically ventilated 3-storey office
 - b. Demonstration of new ventilation stack design installed in a Birmingham Special School
 - c. Five-storey university building in central London

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Speaker: Shaun Fitzgerald.

Dr Shaun Fitzgerald BP Institute, University of Cambridge (www.bpi.cam.ac.uk) – Dr Fitzgerald is an engineer who has undertaken fundamental research in natural ventilation and worked on low energy buildings providing consulting design services for clients ranging from FTSE100 firms to small architectural practices.

Venue: Wakefield TBC
Date: Tuesday 10 November 2009, 2 – 5pm, registration commences at 1.30pm
Cost: CPD Club member £17.25 (£15.00 + VAT)
 RIBA/CIAT member £23.00 (£20.00 + VAT)
 Other £28.75 (£25.00 + VAT)



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Please send payment with your booking

Names:			
Practice:			CPD Club member : Yes/ No
Address:			
			Postcode:
Tel:		Fax:	
Email:			

Cheque enclosed for £..... (made payable to RIBA Yorkshire)

Please note: Send booking form to RIBA Yorkshire, The Studio, 32 The Calls, Leeds LS2 7EW or fax to 0113 3899871 or email your details to riba.yorkshire@inst.riba.org Refunds for cancellation can be made up to 7 days before the event. After this date a substitute delegate can be nominated. Please inform RIBA Yorkshire of any changes on **0113 389 9870**. The RIBA reserves the right to substitute speakers or cancel events should exceptional circumstances arise.

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