



Healthy homes: Ventilating right for good indoor air quality

22nd February 2012

UKIEG Annual Conference 9.45 – 12.40

GHA Seminar 13.30 – 17.30

**Department of Health, Skipton House,
80 London Road SE1 6LH**



Hosted by: UKIEG
Supported by: Department of Health

Background

The GHA and UKIEG are working together to bring you this joint meeting, with the UKIEG annual conference being held in the morning and with the GHA workshop on healthy homes following on in the afternoon.

Higher standards of air tightness associated with the drive towards low carbon homes lead to significant questions about how to ensure good ventilation. However, feedback has suggested that there have been a number of poor installations and common problems with different ventilation approaches, so how do we ensure best practice design, installation, commissioning and ongoing maintenance, all vital components to the success of the system to deliver good indoor air quality to maximize the health and wellbeing of occupants?

The GHA has been researching case studies that have monitored data to prove good indoor air quality to understand if there are any common approaches that help to define best practice. We will present a summary of this work at the event, along with examples of good practice in MVHR and natural ventilation, and experience of different approaches from Europe.

Who should attend?

Developers, housebuilders, RSLs, architects, M&E contractors and client groups who want to create a better and wider agenda for sustainable housing, academics, public health professionals and policymakers with an interest in health and the indoor environment.

To book a place at this event, please email Roger:

roger@goodhomes.org.uk

Morning: Free for UKIEG members; £50 plus VAT (£60) for GHA members

Afternoon: Free for GHA members; £50 plus VAT (£60) for UKIEG members

Whole day: £100 plus VAT (£120) for non-members for the day

For further info on the UKIEG: www.ukieg.org

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Sponsored by the Zero Carbon Hub

Morning Programme

- 09.45 **Arrival for refreshments & UKIEG session**
- 10.15 **Welcome and introduction**
Paul Harrison, PTCH Consultancy
- 10.20 **Introduction from Department of Health**
Jonathan Graves, Department of Health
- 10.25 **Review of talks from previous UKIEG Conferences**
Paul Harrison, PTCH Consultancy
- 10.30 **KEYNOTE PRESENTATION – Health & wellbeing; the role of indoor air quality**
Frank Mills, Sinclair Knight Merz
- 11.00 **Control of emissions from indoor materials and consumer products**
Derrick Crump, Cranfield University
- 11.20 **Coffee**
- 11.30 **Sheltering in Place – effectiveness of sheltering indoors during chemical and radiological incidents**
James Stewart-Evans, Health Protection Agency
- 11.50 **Increased cataract risk and biomass smoke exposure: Results from a cross-sectional survey in Nepal**
Om Kurmi, University of Birmingham
- 12.10 **Discussion**
- 12.30 **UKIEG AGM and close**
- 13.00 **Lunch**

Afternoon Programme

- 13.30 **Arrival for refreshments & GHA AGM**
- 14.00 **Chair's welcome and introduction**
Pete Halsall, Chair GHA
- 14.10 **Ventilation and good indoor air quality**
Lynne Sullivan sustainableBYdesign and Chair of the Ventilation and Indoor Air Quality Task Group, Zero Carbon Hub and Rob Pannell, Zero Carbon Hub
A round up of the Task group's work and recommendations and an indication of the scale of the problem.
- 14.40 **The Dutch Experience: A national study of mechanical ventilation in Holland**
Atze Boerstra, BBA Binnenmilieu and Eindhoven University of Technology
This presentation will summarise a recent government funded report by BBA into the performance of mechanical ventilation systems in 299 homes in Holland and their effect on self reported health impacts and perceived indoor air quality.
- 15.10 **Practical experience of common ventilation problems**
Alan Gilbert, BSRIA, and Ian Mawditt, Four Walls Consulting.
10 minutes from each speaker on their experience of design & construction issues relating to ventilation and airtightness. Followed by an open discussion for the audience to share their latest experiences, problems and potential solutions.
- 15.40 **Discussion and light refreshments**
- 16.00 **Realistic steps to effective ventilation**
Melissa Taylor, GHA
This talk will explore 6 case studies with proven good indoor air quality and report on their common features with a view to defining a best practice approach.

16.20 **Natural Ventilation – comment and case studies**

Professor Brian Ford, Nottingham University

A review of ventilation options - when is it suitable to design a natural ventilation strategy; below what airtightness figure? What are the advantages of a passive system?

16.40 **MVHR – Measured good practice; design and installation guidance**

Nigel Banks, Keepmoat Ltd and Andrew Farr, Green Building Store

Using experience from the Wimbish Passivhaus scheme, this presentation will explore the learning on successful mechanical ventilation strategies and installations, alongside data to prove the quality of the delivered air quality.

17.20 **Summary and next steps**

17.30 **Close followed by networking drinks**

Next GHA events:

Predictions for Part L 2013 – 20 March at Ecobuild

LowCarbon Homes 4Real- 26April 2012 at UCL