



Thermal Comfort for Building Occupants

Tuesday 18 November 2008 at 10:15am (registration from 9:45am)

The Chartered Institution of Building Services Engineers HQ (www.cibse.org)
222 Balham High Road, London, SW12 9BS

SEMINAR

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The Building Sector is under pressure with the current and the proposed legislations to reduce CO₂ emissions associated with the energy use. Maintaining thermal comfort in buildings will be a challenge particularly with the recent climatic and weather change predictions.

This seminar will highlight various aspects that affect thermal comfort in buildings and give guidance to achieve the recommended thermal conditions in buildings.

On the day it will begin with a look at current legislation on achieving thermal comfort in buildings. The seminar will include presentations from both practitioners and researchers regarding the design, computer modelling and performance monitoring of thermal comfort in buildings and highlight future implementation of new knowledge and advanced technology.

09:45am	Registration and coffee
10:15am	Welcome openings Prof. Derek Clements-Croome NVG Chairman, School of Construction Management and Engineering, Reading University
10:20am	Overview of design regulations for thermal comfort - reviews and highlights of latest thermal comfort standards Prof. Bjarne W. Olesen Head of International Centre for Indoor Environment and Energy, Technical University of Denmark
10:40am	Questions
10:45am	Thermal comfort assessments in public buildings - cross comparisons of natural, mechanical and HVAC systems Dr. William Boardass CEO, William Boardass Associates & Usable Buildings Trust
11:05am	Questions
11:10am	Thermal comfort experiments - experimental heated, breathing and sweating manikins Prof. George Havenith Human Thermal Environments Laboratory, Loughborough University
11:30am	Questions

Programme

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SEMIMAR

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11:35am	Detailed model of human heat transfer and thermal comfort - multi-node dynamic thermo-physiological model Dr. Dusan Fiala Deputy Director, Institute of Construction Economics, University of Stuttgart
11:55am	Questions
12:00pm	Microclimate simulations in buildings - coupling system of Computational Fluid Dynamics (CFD) and human thermo-physiological models Dr. Tong Yang/Dr. Paul C. Cropper Research Fellow, Institute of Energy & Sustainable Development, De Montfort University
12:20pm	Questions
12:25pm	Post-occupancy performance of buildings with low energy ventilation strategies Prof. Maria Kolokotroni School of Engineering and Design, Brunel University
12:45pm	Questions
12:50pm	Lunch
13:50pm	Intelligent control of building systems for thermal comfort - practical remedies for pleasant and inspiring indoor environment Nick Hudleston Division Manager, Natural Ventilation Solutions
14:10pm	Questions
14:15pm	Climate change, thermal comfort and school design Dr. David Coley Centre for Energy and the Environment, University of Exeter
14:35pm	Questions
14:40pm	Extreme indoor thermal environment effects on decision making and behaviour Paul Murphy CEO, JPMorgan Scotland
15:00pm	Questions
15:05pm	Future development – implementing research into practice Dr. Chris Twinn Director of Sustainable Buildings Team, Arup
15:25pm	Questions
15:30pm	Discussion and networking
16:30pm	Close

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