

CIBSE Conference Papers - Dublin 2000

Arnold D - Practical case study of a chilled slab/cooling pond/mixed mode building

Arnold D - Retrospective review of the world's first low energy fully air-conditioned curtain walled building (1948)

Bailey MB - Results of a probabilistic fault detection and diagnosis method for vapour compression cycle equipment

Barber JM, Ferris FJ, Forster R & Roberts BM – WW Phipson – Building services engineer

Beggs Dr C, Halliday S & Sleigh Dr PA - The potential for solar dessicant cooling in the UK

Besant R, Simonson C & Shang Wei - Designing for air-to-air heat and moisture exchange in HVAC applications

Burd Dr A & Burd G - Mobile thermostat for climate control in residential buildings

Colliver DG - A predictive method to determine the leakage area needed in residences for IAQ control by infiltration

Costelloe BA, Finn DP - The design and performance of an evaporative cooling test rig for a maritime climate

Cullen N - High performance displacement ventilation using fabric diffusers – a case study

Dorgan, Chad B - Design phase requirements of total building commissioning

Dorgan, Charles - An overview of TBCx

Dwyer T - IT's for you...internet applied for real building services engineers

Eames PC, Zacharopoulos A, McLarnon D, Hyde TJ & Norton B - Development and experimental characterisation of low cost façade integrated concentrator photovoltaics

Field J - Comparing building performance assessment in the UK, the USA and Sweden, lessons and opportunities for harmonisation

Fisher J – BRE's environmental building: energy performance in use

Fletcher J - Airflow measurement methods to optimise minimum fresh air

Gopalnarayan S - Performance of R-407C as a drop-in replacement for R-22 in unitary air conditioners and heat pumps

Goshayshi H - Improving cooling tower performance for sustainable refrigeration

Greco RA – Lessons learned in commissioning of a high technology data centre

Hahn WG - Ventilation of 19 City of Tampa fire stations

Hayter R - Designing for sustainability

Henck C - Laboratory renovation in older buildings

Hensen Dr Ir J – Integrated simulation for HVAC performance prediction: State-of-the-art

Hill J - Green building research at NIST BFRL

Hitchin R & Pout CH - Local cooling: global warming? UK carbon emissions from air-conditioning now and in the next two decades

Jaunzens D, Brittain J, Davies H - Designing for flexible building services – new CIBSE guidance

Jones PG, Turner N, Browne DW & Illingworth P - Energy benchmarks for public sector buildings in Northern Ireland

Kelly R - Latent heat storage in buildings materials

Kelso R – A CFD study of the airflow field in a mixing box

Keys A - Designing to encourage waste minimisation in the construction industry

Kingston P – A case study and validation of interactive CFD in VR

Kinman TE - A Benchmarking Case Study at Children's Hospital Medical Center, Cincinnati, Ohio

Lagos A - Observation and analysis of two phase flow of boiling refrigerant R600a inside horizontal tubes

Lam KC - Planning and execution of business-centred maintenance for perfect buildings in year 2000

Lawson C - Construction of TBCx requirements

Leeper, Don CIBSE Champion for Innovation – CIBSE & Innovation (keynote speech)

Lin John Z – CFD simulation of transient cooling in a typical Hong Kong office

Maidment GG, Day AR & Ratcliffe MS - Cooling degree-days and their applicability to building estimation and normalisation

Massie DD - Neural networks for control and fault detection in state-of-the-art buildings

Mathaudhu SS – Customising factory built unit for efficiency, reliability and cost effectiveness

Mitchell K – A practical application of computer modelling and physical validation to a building atrium

Moore T, Carter D & Slater A - Conflict and control: the use of locally addressable lighting in open plan office space

Munyebvu E - A positive ventilation air chiller

Murray M & Steele J – Constructing the team – a multi-cultural experience

Murray V, Beattie K – Natural ventilation analysed using dynamic simulation software

O'Brien RG - software tool for modelling combined heat and power systems

Oakley G, Smith Dr SJ, Shao Dr L & Riffat Prof SB - TripleSave – the investigation and monitoring of a combined natural daylighting, heating and stack ventilation system

Olesen BW - Cooling and heating of buildings by activating the thermal mass with embedded hydronic pipe systems

Parsloe C – Computer aided design for variable speed pumping circuits

Redmond Dr Gareth - Nanoscale Science and Technology (keynote speech)

Riederer P, Marchio D, Gruber P, Visier JC, Lahrech R & Husaunnde A - Building zone modelling adapted to the study of temperature control systems

Rooley R - What Happens When The Owner Sues – A Simulated Arbitration

Sahlin Per – The methods of 2020 for building envelope and HVAC systems simulation – will the present tools survive?

Sami S - Influence of geometrical parameters on capillary tube behaviour with new alternative refrigerants

Sawers J - Life cycle asset management

Setty BS - Innovative HVAC solutions for a historic building renovation

Sherman M - ASHRAE's residential ventilation standard: exegesis of proposed standard 62.2

Simmonds P – Comfort conditioning for large spaces

Spitler JD - Recent developments in ground source heat pump system design, modelling and applications

Steele J - An internet-based system to support inter-disciplinary and inter-organisational collaborative conceptual design

Suggs RM – Making the old/new or turning castles into condos, how can us Yanks do it better and cheaper

Tait M – Sellic – An engineering library

Tanda G, Devia F & Misale M - Free convective heat transfer in a partially open cavity

Thomas R - Engineering and ingenuity – towards environmental design

Wolf Jim, President ASHRAE - The Kyoto Protocol impact on HVAC & R Technology (keynote speech)

Posters

Burd Dr A & Burd G - Mobile thermostat for climate control in residential buildings

Crowley M & Hashmi Mohammed SJ - Matrix-free numerical methods for buildings energy simulation

Eames PC, Hyde TJ, Fang Yueping, Griffith PW & Norton B - Development of a window with an overall heat loss co-efficient of less than 0.4mq_K and 0.7 visual transmittance

Hancock M - Do simple design tools improve design decisions in a hot climate?

Monksmith R, Maidment GG & Missenden JF - Sustainable cooling via a ground coupled chilled ceiling system

Southall R & McEvoy Dr M - Validation of a computational fluid dynamics simulation of a supply air ventilated window

Williams J - A knowledge based tool to aid in the preliminary evaluation of CHP for a building

Yang Pei Rong, Yap C & Chou SK - Model extension to ejector performance at secondary flow choking

Exhibitors

Calorex Heat Pumps Ltd
EDSL
Euro Gas Ltd
Gilberts (Blackpool) Ltd
McCool Controls Ltd
Merriot Radiators
Mitsubishi Electric Ireland
Philips Electronics (IRL) Ltd
Redbro Ltd
RSL Ireland Ltd
Thermo Systems Ltd
Valve Control Systems
Wilo Engineering Ltd