



Institute News

Editor: Jonathan Baillie
jonathanbaillie@stepcomms.com

Technical Editor: Mike Arrowsmith
BSc(Hons), CEng, FIMechE, FIHEEM

Business Manager: Nick Carpenter
nickcarpenter@stepcomms.com

Business Manager online: Chris Vincent
chrisingent@stepcomms.com

Publisher: Geoff King
geoffking@stepcomms.com

Publishing Director: Josh Taylor
josh.taylor@stepcomms.com

Journal Administration: Kate Phillips
katephillips@stepcomms.com

Journal Design: Dave Woodall
Ray Ecclestone

Published ten times a year by:
Step Communications Ltd
Step House, North Farm Road,
Tunbridge Wells, Kent TN2 3DR
Email: hej@stepcomms.com
Web: www.healthestatejournal.com
Tel: 01892 779999
Fax: 01892 616177

Published on behalf of:
The Institute of Healthcare
Engineering and Estate Management
2 Abingdon House,
Cumberland Business Centre,
Northumberland Road
Portsmouth, Hants PO5 1DS
Reg Charity No 257133

Tel: 023 9282 3186
Fax: 023 9281 5927
Email: office@iheem.org.uk
Web: www.iheem.org.uk

President: Greg Markham BEng (Hons),
CEng, FIHEEM, MIET, MBIFM

Chief Executive: Julian Amey MA, FRSA
julian.amey@iheem.org.uk

Accounts Manager: Annabelle Morgan
annabelle.morgan@iheem.org.uk

Recruitment/Membership Manager:
Chris Parker
chris.parker@iheem.org.uk

Events/Education Manager: Siân Barker
sian.barker@iheem.org.uk

Administration Officer: Jolene Tebbey
j.tebbey@iheem.org.uk

Membership Officers:
Clair Wilkins
clair.wilkins@iheem.org.uk
Kate Newman
kate.newman@iheem.org.uk

Journal Subscription			
UK	Overseas		
Annual	£96	Annual	£109
Half year	£57	Half year	£65
Cost per issue	£18	Cost per issue	£20

©2014: The Institute of Healthcare Engineering and Estate Management
UK ISSN 0957-7742

Printed by Printwells, Tunbridge Wells, Kent TN2 3XF
Neither the Institute nor the Publisher is able to take any responsibility for views expressed by contributors. Editorial views are not necessarily shared by the Institute. Readers are expressly advised that whilst the contents of this publication are believed to be accurate, correct and complete, no reliance should be placed upon its contents as being applicable to any particular circumstances. Any advice, opinion or information contained is published only on the footing that The Institute of Healthcare Engineering and Estate Management, its servants or agents and all contributors to this publication shall be under no liability whatsoever in respect of its contents.

BIM and sustainability to be among the talking points

This year's Healthcare Estates Conference, Exhibition, and Dinner, taking place from 7-8 October at Manchester Central (GMEX), will be 'even bigger', the organisers, Step Exhibitions, say, with the outline conference programme set to be announced in April, and 'further details on the positive impact for exhibitors' due to be unveiled next month.

Steve Webb, show director said; "We plan to continue our focus on a number of key subject areas in the conference programme this year, including engineering; facilities; estate management and rationalisation; architecture, design, property, and maintenance; financial management; renewable technologies, and carbon reduction."

Changes in NHS 'landscape'

The 2014 event theme is 'Quality in the patient environment', with 'a major focus on the recent changes in the NHS, and how these are impacting on the estate'.

"We will be working closely with our event supporters, each of whom provides intelligence and access to key speakers, to ensure that the content is timely and relevant, explained Steve Webb. "In 2014 these will include Architects for Health, BRE, the Design in Mental Health Network, Building & Engineering Services (B&ES), the Construction Industry Council, CIBSE, the Healthcare Facilities Consortium, the Medical Gas Association, the National Association of Healthcare Fire Officers, ProCure21+, The King's Fund, LIFT, and the Carbon and Energy Fund."

Among a number of new features, and one of four such 'theatres' offering 'free' content on the exhibition floor, will be a theatre dedicated to design in mental health and dementia care. Steve Webb said: "We are working with the Design In Mental Health Network, who are developing a comprehensive programme for Day One, with Day Two focused on Dementia and Care, run in partnership with the Dementia Services Development Centre (see also pages 49-53).

Expanded for 2014

Also 'very popular' in 2013, and expanded for 2014, is the Contractors' & Architects' Theatre, which will be run in partnership



The 2014 IHEEM Awards Dinner will be held at a new venue – the Mercure Manchester Piccadilly Hotel.

with Architects for Health and the Construction Industry Council, and will include an area dedicated to Building Information Modelling (BIM).

Carbon and energy reductions

The Energy Theatre, meanwhile, will see presentations on hospital case studies demonstrating the potential for, and realisation of, substantial carbon and energy reductions including, for example, a focus on a scheme at Cambridge's Addenbrooke's Hospital developed with the Carbon and

Energy Fund. Steve Webb elaborated: "The carbon / greenhouse gas savings achieved through the use of new CHP plant at the site, and the use of renewable (biomass) and clinical waste incineration, will deliver a carbon reduction of 47% for Addenbrooke's Hospital."

The fourth theatre offering 'free' content is the NHS Sustainability Theatre, which will be run in conjunction with the BRE and the NHS Sustainable Development Unit (NHS SDU). Presentations and content will focus on the NHS SDU's new Strategy – announced on 29 January this year, and on BREEAM. Steve Webb said: "International interest in the approach the NHS is taking to sustainable development is growing all the time. The NHS is particularly recognised in the areas of system governance for sustainability, metrics, and leadership.



Healthcare Estates

"One of the new areas for 2014 linked to sustainability is being developed with the Carbon Energy Fund (CEF), which will hold a one-day event within the Energy Theatre."

Satisfaction with venue

Step Exhibitions has recently concluded a five-year deal with Manchester Central and IHEEM to continue the development of Healthcare Estates in the North-West based at Manchester Central. Steve Webb said: "Research among our exhibitors, visitors, and delegates, has confirmed that the vast majority are happy with both the location and the venue, while successive years of growth have resulted in the event exceeding all our expectations."

Research following Healthcare Estates 2013 showed that 90 per cent of visitors planned to attend the event again in 2014, with 86 per cent dubbing the conference 'good' or 'excellent'. Steve Webb said: "Importantly, a large number of our visitors and delegates tell us they only attend one event annually – Healthcare Estates. In 2014, special delegate and 'VIP' packages will be offered to previous attendees, selected healthcare employees, IHEEM members, and exhibitors' guests."

The organisers have also confirmed a new location for the IHEEM Annual Dinner and Awards in 2014, the Mercure Manchester Piccadilly Hotel, allowing them to 'grow' the dinner to over 500 places.

Healthcare Estates 2014 will take place on 7 and 8 October at Manchester Central.

For more information, including rates for exhibiting, and visiting details, telephone: +44 (0)1892 518877 email: healthcare@stepex.com or visit: www.healthcare-estates.com www.healthcare-estates.org.uk

Swiss trip is enjoyed by Northern Ireland Branch

Thirty-eight members of IHEEM's Northern Ireland Branch recently enjoyed a memorable two-day visit to Switzerland, with a tour of the Geberit Headquarters, in Rapperswil, Zurich, the Branch chair, Joanna Dougherty, writes.

The company dates back to 1874, when Casper Melchior Geberit was granted work as a plumber in Rapperswil in Switzerland. In 1905 he started to manufacture parts, developing the first wooden cistern for toilets, the so-called 'Phoenix', lead-coated, and with a flushing mechanism which was considered revolutionary.

Joanna Dougherty explained: "The Geberit Group is now the European

market leader in sanitary technology. With representatives in 41 countries, its product range includes sanitary and piping systems. Our group was afforded a very interesting visit around Geberit's research and development facility, learning about the importance of effective waste drainage systems, silent in operation, and minimal in water usage. Included was a detailed talk on Geberit piping systems, during which the mystery of the shower toilet was explained!"

In addition to the technical portion of the trip, members also had some free time to explore the Rapperswil area, including a guided tour of Zurich.



Diary dates

13 Feb: *Water Management Society conference – 'What will L8 and HSG274 mean to you?'* Drayton Manor Hotel, Tamworth. T: 01827 289558. www.wmsoc.org.uk

27 Feb: *The Energy Services & Technology Association (ESTA) 12th Automated Monitoring & Targeting (aM&T) conference.* Ricoh Arena, Coventry. www.esta.org.uk/key

4-6 Mar: *Ecobuild.* ExCeL, London. www.ecobuild.co.uk

27 Mar: *NHS Sustainability Day 2014.* www.nhsustainabilityday.co.uk

15 May: *IHEEM Medical Devices Advisory Group seminar.* Venue to be confirmed. T: 023 9282 3186, or visit: www.iheem.org.uk/Events

21-22 May: *IHEEM Northern Ireland Branch 6th Bi-annual event conference.* Slieve Donard Resort & Spa, Newcastle, County Down. T: 028 90 90329. Email: joanna.dougherty@belfasttrust.hscni.net

7-8 Oct: *Healthcare Estates 2014.* Manchester Central. T: +44 (0)1892 518877. www.healthcare-estates.com

12-16 Oct: *IFHE Congress 2014 – 'Healthcare facilities in times of radical changes'.* UCA University, Puerto Madero, Buenos Aires. www.ifhe2014buenosaires.com.ar

Congratulations

IHEEM would like to congratulate the following, who had Institute grades awarded, or Engineering Council status conferred on them, recently:

Fellow

- Kam Tong Chan
- Mark Jackson
- Catherine Noakes

Member

- David Barwell
- James Darby
- Ngai Tung Chan
- Darren Feldman
- Sandeep Gopaul
- Duncan Hodgkinson
- Chris Shun Wo Lam
- Shaun McKenna
- Keir Morris
- Naddy Parperi
- Kevin Peacock
- Ahmad Zamri Said
- Subash Sule
- Matthew Taylor

Associate Member

- Kumarakurubaran Annamalai Pillai

Company Affiliate

- Apreco Limited
- Delabie
- Dorteck Limited
- GVS Filter Technology
- LSI Architects
- Managed Technology Services Limited
- Saacke Combustion Services Limited
- Tecomak Environmental Services Limited
- WP Healthcare

Skilled Person Affiliate

- Daniel Munroe

Student Affiliate

- Mohammad Albatat
- Mandarun Jamil Shezaad Ally
- Abdullah Alzahrani
- Po Chak Ching
- Ho Yin Hg
- Rehan Jamil
- Po Kong Ngai
- Lin Liu
- Chau Chin Nang
- Michael Purcell
- Lin Hoi Ting
- Zezhang Zhong

Engineering Technician

- John Robert

Incorporated Engineer

- Stephano Mirasole

Chartered Engineer

- John A'Court

Biodynamic lighting advances discussed

A recent North West Branch technical seminar hosted by Whitecroft Lighting in Ashton-under-Lyne, and chaired by Cundall Engineering Consultancy, focused on 'Biodynamic lighting and advances in LED technology', writes Branch Secretary, Tony Winter, energy and environmental manager, Technical Services, at the Tameside Hospitals NHS Foundation Trust.

Andrew Bissell of Gosforth-based

Integrated Medical Interiors spoke about the current revisions to lighting design, and particularly the use of daylight modelling, similar to that used for thermal calculations, with potential resulting savings in construction and heating costs. He went on to talk about biodynamic lighting, related to the body's natural circadian rhythms, and presented the company's IMI Pod, an off-site fabricated, modular, integrated patient environment.

Matt Paskin from Whitecroft Lighting then spoke on advances in LED technology, detailing what specifiers should be looking for when designing new or retrofit installations. Delegates then visited the healthcare installation at Whitecroft, including the IMI Pod. The facility has a range of typical healthcare installations, allowing visitors to get first-hand experience of how the systems are integrated.

Honoured to contribute to Branch activities

A former Young Member Group Chairman of the Chartered Institution of Building Services Engineers Hong Kong Branch (CIBSE HK), and former ECS Chairman of the Institution of Engineering and Technology Hong Kong (IET HK), has become a Fellow of IHEEM.

Since graduating from Newcastle Upon Tyne Polytechnic, Dr Jason Chan BEng (Hons) Msc EngD CEng FIHEEM MCIBSE MIET MHKIE RPE, has worked in engineering for over 20 years, both in consulting and contracting firms. An

IHEEM Hong Kong Branch member, he has particular experience in public health, industry, academic, and commercial building development, and building services systems design and installation.

Dr Chan currently runs his own Hong Kong-based healthcare project turnkey company, MGI (Far East), as a general manager, with two partners, John Chan and Steve Lai.



He said: "With rapid development of healthcare projects in the Asia Pacific region, IHEEM provides an excellent platform for healthcare engineers and experts to share their knowledge and expertise and discuss innovative initiatives. I consider IHEEM Fellowship an honour, and am especially pleased to be able to make a contribution to the work of the Hong Kong Branch."