

Health Sector News

New Cambridge hospital for Nuffield

An 'important milestone' in P+HS Architects' long-standing relationship with Nuffield Health has seen the completion of a brand new hospital for the private healthcare provider in Cambridge.

Phil Bentley of P+HS Architects said: "The challenge was to design a contemporary new building to be constructed while the existing hospital remained operational. It was also essential to retain the special quality of the site, which is characterised by mature trees and attractive landscaped grounds.

"Feedback from extensive consultation helped shape the design, with input from clinicians, staff, neighbours, the community, and local interest groups. A key requirement was to provide an exceptional non-clinical environment, while incorporating specialist equipment and the latest technology."

The 38-bed hospital includes inpatient and outpatient facilities, diagnostics, physiotherapy, an operating suite with three theatres, endoscopy, oncology services, and a pharmacy. Staff areas include a terrace and breakfast bar area.

The 'compact' building design



minimises staff and patient travel distances, while interior spaces provide a calm, therapeutic environment. The layout, which includes 'strategic views out', was designed to improve orientation and wayfinding. Externally there are gardens and terraces for patients, visitors, and staff.

On entering the site the principal elevation presents a formal, civic frontage with 'a clearly legible and inviting main entrance'. The front elevation provides an ordered composition, its mass punctuated with deep shadow reveals. The hospital's appearance, including the selected brick, is designed 'to harmonise with the character and architectural quality of Cambridge'.

The reception foyer includes artwork and views to the gardens, and leads to outpatients' and diagnostics departments. Single *en suite* inpatient bedrooms and the outpatient oncology department all

benefit from views out at first floor level. Within the Oncology department is a 'brilliantly coloured' acrylic artwork representing the river Cam and its landmarks. The second floor is primarily theatres with associated preparation and recovery areas, plus the endoscopy suite and physiotherapy department with gym.

Phil Bentley added: "The design is enriched throughout by Simon Faithfull's art installations, complementing the boutique interior design, and providing interest and inspiration for patients, staff, and visitors. Consultant, David Brown, worked with neighbours to preserve and enhance the external landscape, creating outdoor areas to reflect the themes of well-being and welcome which pervade the scheme."

The new hospital, built by Simons Construction, marks the successful completion of Phase 1. A second phase, due for completion next summer, will see the demolition of most of the original hospital, with the retention and refurbishment of one wing to provide the pathology and medical records departments, staff facilities, offices, and meeting rooms.

Cover Story

CO₂ emissions cut by a third at Lincoln hospital

Veolia's combined heat and power (CHP) energy centre at Lincoln County Hospital was commissioned in 2004 to generate energy locally.

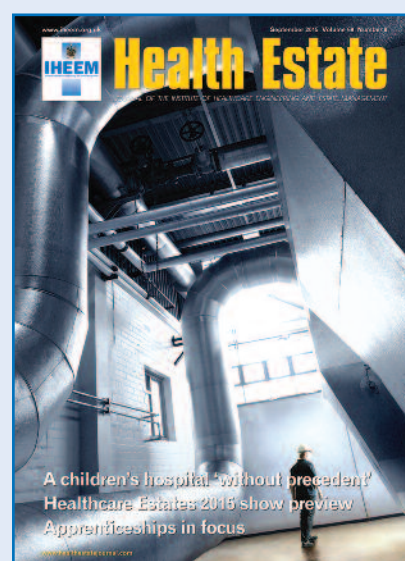
Since then the Veolia CHP has enabled the site to reduce its emissions by 4,000 tonnes of CO₂ annually – around 30% of the hospital's CO₂ emissions. The cumulative reduction over the 11 years of plant operation is 44,000 tonnes of CO₂ savings from the energy centre alone.

The United Lincolnshire Hospitals NHS Trust signed a 15-year contract with Veolia in 2004, which saw the company provide the modern, remotely controlled, combined heat and power plant to supply low carbon heating and electricity to the hospital. Via the inclusion of a CHP system, energy efficiency has been greatly increased, electricity is generated

on site, and the hospital has gained from a cost-effective and reliable energy supply.

To provide heating, hot water, and electricity, to Lincoln County Hospital, the existing coal-fired boilers were replaced by a gas-fired 1.35 MW combined heat and power unit and three 8 tonne/hr (dual fuel) steam boilers, including one that takes the waste heat from the CHP unit.

To extend the energy savings and support sustainability, Veolia is now helping the Trust to reduce its carbon footprint further by helping with its new '90k in 90 days' programme – a three-month challenge to staff to make regular, small, money-saving changes, such as switching off unnecessary lighting and equipment, closing doors, and other measures – that can result in a saving of £90,000 in 90 days.



Veolia UK
8th Floor
210, Pentonville Road
London N1 9YY
Tel: 020 7812 5000
www.veolia.co.uk

Acoustic testing for HVAC equipment

BSRIA has extended its scope of UKAS (United Kingdom Accreditation Service) accreditation to include laboratory-based acoustic testing.

The member-based association – which provides specialist services in construction and building services – provides acoustic testing for a range of HVAC products, including heat pumps and oil-fired boilers, in a thermally controlled 210 m³ reverberation chamber at its Bracknell site.

The accredited standards include BS EN ISO 3741:2010 (for determining sound power levels of noise sources in a reverberation chamber), and BS EN 12102:2013 (for determining sound power levels for air-conditioners, liquid chilling packages, heat pumps and dehumidifiers – with electrically-driven compressors for space heating and cooling).



Rebecca Hogg, acoustic consultant, who manages the test facility, said: "The extension of our scope complements our existing UKAS-accredited testing services, and provides the customer with assurance that they are getting internationally recognised quality test data. Precision acoustic data obtained in the laboratory facility is beneficial to customers, as noise is a key factor when selecting and installing HVAC equipment."



Vernacare's South East Asian success

With support from the Government's export agency, UKTI (UK Trade & Investment), Vernacare says it has secured more than 23% of the Singapore hospital market for its 'hygienic patient washing and toileting products'.

Emma Sheldon, group marketing director for the Bolton-based medical product supplier (pictured), recently visited Singapore and Malaysia as part of a delegation of 62 companies and city leaders from England's Northern Powerhouse. They were joined by Prime Minister, David Cameron, and Business Secretary, Sajid Javid, for the first Northern Powerhouse trade mission – the aim being to explore business and secure jobs and investment for the Northern region.

In a speech in Singapore, David Cameron said: "The Government is committed to ensuring the UK's northern regions play their part in rebalancing our economy. With so much untapped potential, I'm delighted to be part of this first Northern Powerhouse trade mission – the first of what I hope will be many. "He described Vernacare as 'a great example of what the Northern Powerhouse has to offer', adding: "Look at Vernacare, whose science helps prevent infections, in locations ranging from NHS hospitals to healthcare facilities affected by Ebola in Sierra Leone."



Speaking alongside the Prime Minister at the Unilever offices in Singapore, Emma Sheldon, said: "It is an honour to be part of this Northern Powerhouse visit. By taking this 'one north' approach, and thinking outside our own local boundaries, I believe the Northern Powerhouse can tilt the UK's economic axis, and create one of the best trade centres in Europe."

Sales in Singapore of Vernacare's single-use bedpans, urinals, washbowls and 'environmentally-friendly' disposal machines now account for 13% of the company's international business, 'acting as a springboard to open up new business opportunities across South East Asia'.

Other companies participating in the inaugural Northern Powerhouse trade mission included Bentley Motors, Arup, and KPMG.

News In Brief

New recruit for Airwave

Phil Story has joined the team at supplier, installer, and integrator of digital television and audio visual components, Airwave Healthcare, as a regional account manager. He brings with him 20 years of IT experience, the last four spent in technical sales within healthcare, working in the UK and Ireland selling PACS system displays, large format screens, and digital signage.

Free online electrical safety testing training

Provider of practical-based and distance learning medical equipment training, Avenys UK (*HEJ* – August 2015), has received CPD accreditation for all its Level 2 and 3 courses, and is inviting engineers to attend a free online training session on 'Electrical Safety Testing', on September 16 at 1 pm. The session will give a 'taster' of the company's full one-day Electrical Safety Testing Course, and participants will receive a one-hour CPD certificate. To join the session, register at <https://avensysmedical.eventbrite.co.uk>.

Mitie appoints new healthcare director in FM division

Mitie, the facilities management company, has appointed Lindsey Coles as healthcare director in its facilities management division. Bringing 30 years' healthcare experience, skills in service delivery, contract management, and outsourcing, and knowledge of the NHS, she said: "I was keen to join Mitie for its client-focused and innovative approach to facilities, as well as its wide range of services. It's a great opportunity to work with impressive existing clients, and to help attract new ones."

Taylor 'lifts lid' on waste fire prevention

Amid increasing reports that waste fires now account for a growing proportion of public fires, Taylor, a manufacturer of four-wheeled galvanised steel bins, has developed a 'fire-proof' lid. The FRLID incorporates 'a specialist high-grade polymer with specific characteristics to withstand fires'. The company said: "While standard plastic lids typically melt, fuelling a fire through a combination of melted plastic and increased oxygen intake due to an absent lid, the FRLID remains intact, preventing fire from spreading, and even dampening it out by starving it of oxygen."

'Pioneering' shower for 'the less able'

The 'pioneering' Joy Care by Bristan, a 'stylishly designed' BEAB Care and RNIB-endorsed shower said to be easy to install and retrofit, is being used in conjunction with shower pumps 'to meet the complex requirements of wet room retrofits in the care and social housing sectors'.

Bristan said: "Traditionally, due to the fact that wet rooms designed for wheelchair needs typically incorporate level access to the showering area, gravity drainage is not always an option. As such, a Level-Access Pump (LAP) is needed to provide a reliable solution for waste water removal; however it can often be a timely task to find the right shower for the right pump solution."

With this in mind, the new Bristan Joy

Care, developed 'to provide the ultimate in ease of use for people with varying capabilities', has been designed to be used in conjunction with a number of LAPs, including the 'market-leading' Whale Pump. Bristan said: "The result is a comprehensive solution for those seeking an easy and cost-effective solution for their washroom requirements where disabled access is needed."

Lisa Ward, product group manager, added: "Since its April launch, our Joy Care shower has proven an unprecedented success – providing the market with a truly innovative shower which can cater for varying abilities while, unlike most market offers, also incorporating a stylish design."



Examination lighting upgraded at Glan Clwyd

As part of a current ongoing £90 m redevelopment of the Glan Clwyd Hospital in Rhyl, North Wales, the healthcare facility has seen an extensive upgrade to LED examination lighting.

Aiming to significantly reduce the hospital's lighting-related energy consumption, and help it achieve noticeable cost savings, Daray supplied its X400 and SL180 LED light models for use in wards, the new Emergency Quadrant, and the Radiology, Urology,

and Outpatients' departments.

The upgrade has reportedly 'transformed the appearance of clinical areas', while delivering 'further crucial benefits such as carbon savings and increased efficiency'.

Daray said: "The improvement in lighting throughout Glan Clwyd will benefit staff and patients in the long-term. As a UK manufacturer, we understand the importance of ensuring that the equipment supplied into our hospitals exceeds quality and infection control

standards, while allowing hospital staff to focus more time on the patients.

"The X400 and SL180 models benefit from LED technology, and with features like variable intensity and advanced colour rendering, offer exceptional, accurate performance while keeping running and ownership costs to a minimum."

A wide range of standard mounting options make these models ideal for maxillofacial, obstetrics, diagnostics, and gynaecology.

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Product recall 'milestone'

The Medicines and Healthcare products Regulatory Agency (MHRA) has started using Unique Device Identifiers based on GS1 standards in healthcare recalls, in a move which GS1 UK says 'will improve traceability, efficiency, and cost savings, throughout the NHS'.

GS1 UK said: "GS1 global standards are being widely adopted by NHS Trusts in England in line with the NHS eProcurement Strategy mandate (*HEJ* – June 2014), and the Personalised Health & Care 2020 Strategy, published last year. This recent move by the MHRA underlines the power of using a single method of coding and identification across the whole industry. Through the implementation of GS1 standards in patient safety alerts, each person, product, and place, everywhere along the patient pathway, can



be instantly identified. Thus in the event of a healthcare recall, identifying, tracing, and recalling defective items is much quicker, cheaper, and easier, wherever they are in the healthcare supply chain."

Andy Crosbie, head of Biosciences and Implants at MHRA, said: "In perhaps the first case ever, the Government recently informed the health services about a medical product recall using Unique Device Identifiers – a significant milestone for the healthcare sector."

Screen role for Steve Bell

ECEX has appointed Steve Bell as manager for the business's Air Intake Screens arm.

His previous roles include 14 years with a major filter company, where he introduced, specified, and installed, similar screen products.

John Grenville, ECEX's MD, said: "We are delighted to be welcoming Steve Bell to the firm; his background and drive means he will be a real asset to the business. Sales of ECEX Air Intake Screens already exceed 10 per cent of our revenue, but there is so much more

potential – at the moment we really are only touching 'the tip of the iceberg'."

ECEX air intake screens are 'long-lasting, weather-resistant filters designed specifically for high velocity airflow applications such as chillers, dry air coolers, air-handling units, cooling towers, and air-conditioning units'. The company said: "The screens offer a simple way to save estates and facilities managers both money and maintenance time, by preventing airborne debris from clogging internal coil fins, perishable filters, and other components."

Diary dates

8-9 Sep Construction Industry Summit 2015, Grange St Paul's Hotel, London. T: 01892 518877; www.tinyurl.com/opksdmt

8-10 Sep *IPEM Medical Physics and Engineering Conference 2015*, Hope University, Liverpool. T: 01904 610821. Email: conferences@ipem.ac.uk www.tinyurl.com/otg5tat

10 Sep *IHEEM* seminar, 'Waste Not Want Not', focusing on waste management, The Robens Suite, Guy's Tower, Guy's Hospital, London. T: 023 9282 3186; Email: chris.blower@iheem.org.uk, www.iheem.org.uk/Events

16 Sep *IHEEM* South West branch event and presentation on 'Healthcare lighting and the four key criteria', by Whitecroft Lighting, Gleds offices, Bristol. T: 0117 317 3200; Email: john.ford@gleds.co.uk

21 Sep *IHEEM* Scotland Branch event and presentation by Interfurn UK on 'Canopy considerations for cleaner airflow', NHS Scotland Building, Meridian Court, Glasgow. T: 0141 207 1859; Email: andrew.tweedie@nhs.net

14 Oct *IHEEM* South West branch event and presentation by Interfurn UK on 'Canopy considerations for cleaner airflow', Gleds offices, Bristol. T: 0117 317 3200; Email: john.ford@gleds.co.uk

20-21 Oct *Healthcare Estates 2015*, Manchester Central. T: +44 (0)1892 518877; www.healthcare-estates.com

3-4 Nov (*IHEEM*-supported) CIBSE Building Performance Conference and Exhibition, QEII Centre, Westminster. T: 01892 518877; www.cibse.org/conference

3-4 Nov International Dementia Conference and Care Show, NEC, Birmingham. www.careshow.co.uk/ Email: careshowteam@ubm.com



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