

Health Sector News

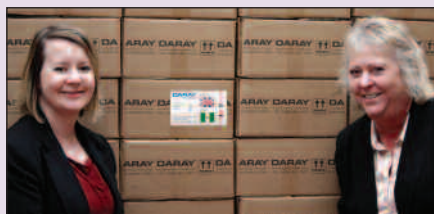
'Affordable lighting' supplied to Nigeria

Manufacturer of 'high-efficiency' medical lighting, Daray, has supplied over 1,300 lights to medical facilities in Nigeria.

The Derbyshire manufacturer provided lights from its X200 and X350 LED medical examination range to four separate projects within the country. Daray said: "LED lights consume significantly less power, produce less carbon emissions, and are much more robust, than halogen, meaning they can cope with the conditions in these remote areas."

Phillip Wright, Daray's MD, said: "It is pleasing to see the Government using the UK overseas aid budget to not only provide vital medical health and support to those in need of it in the developing world, but also doing so through British manufacturers."

Daray supplied 360 X200 LED mobile general examination lights, which incorporate a coating of BioProtect antimicrobial solution, to Phase one of Nigeria's Partnership for Transforming Health. While the projects have access to



Nichola Howard, marketing director, Daray, (left), and Yvonne Larwood, export manager, with some of the lights ready for dispatch to Nigeria.

mains power, regular interruptions to the electricity supply result in a disruption to medical procedures. To overcome this, Daray used its PowerSentinel surge protector.

A total of 528 lights from Daray's X350 range, which also feature BioProtect and a flexible gooseneck – designed specifically for gynaecological procedures – were supplied for Phase two of the Partnership for Transforming Health. To meet the demand for mobile and field examination, Daray developed and designed battery

packs which could be fitted to 72 of its X350 LED examination lights, 'vastly improving medical access to those who cannot reach a centre'.

Given Nigeria's high infant mortality rate, 390 X200 lights, complete with PowerSentinel surge protectors, were provided to mother, new-born, and child health centres across the country, to offer improved lighting and infection control.

The project was funded by the Department for International Development (DFID), and managed by international development specialists, Crown Agents. A further 10 X350 lights were supplied to family planning centres.

Phillip Wright continues: "We often take for granted the care and hygiene standards on offer in the UK, which are often superior to those available in the developing world. High quality, affordable, medical lighting is a must for any effective medical examination, and is especially pertinent to antenatal and post-natal treatment in Nigeria, given the high infant mortality rate there."

Cover Story

Low maintenance, high performance water heating

The Megaflo Commercial unvented water cylinder from Heatrae Sadia is reportedly suitable for any commercial application, including hospitals, care homes, hotels, guest houses, schools, universities, leisure centres, sports clubs, holiday parks, swimming pools, office blocks, factories and shopping centres, and large residential properties.

Capacities range from 400 to 2,500 litres. Both indirect and direct versions are available, and some of the cylinders are designed to be used with solar thermal and renewable technologies. To increase storage capacity, any of the cylinders can be installed in parallel, in any combination.

Taking the lead from the company's 'market-leading' Megaflo Eco domestic unvented cylinder, the Megaflo Commercial is described as 'a high-

performance, high-quality, energy-efficient product'. The cylinders deliver hot water at up to 90 litres per minute, and can heat up to 2,500 litres in less than 60 minutes. Offering either a six bar, or a 'unique' 10 bar operating pressure, they are tested to 22.5 bar, while 100 mm of the latest PU insulation keeps heat loss to a minimum.

Megaflo Commercial is manufactured from marine-grade Duplex stainless steel, making it extremely strong, durable, and corrosion-resistant. This reduces maintenance, and enables Heatrae Sadia to offer a 25-year anti-corrosion warranty. The company added: "Marine-grade stainless steel gives a significant strength-to-weight ratio advantage – typically 35 per cent less than other materials – making handling and installation easier."



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'Inadequate' window security leads to death

Southend University Hospital NHS Foundation Trust has been prosecuted by the Health and Safety Executive (HSE) for 'serious safety breaches', and fined, after a vulnerable patient at Southend Hospital died after falling nine metres from a third-floor window fitted only with a single restrictor in July 2010.

Southend Crown Court heard that Robin Blowes, 69, had been admitted for a bladder operation in June 2010. After developing confusion during his recovery, he was moved to a side room. One evening he sustained serious injuries after falling through the room's window opening, dying shortly afterwards in the hospital's emergency department.

An HSE investigation found that the Trust's arrangements for managing the risk of patients falling from windows were 'inadequate'. The window had been fitted only with a single, angle bracket restrictor,

bent to one side, allowing it to be fully opened. Guidance in place since 1989 states that windows in hospitals accommodating vulnerable patients should be restricted to a maximum opening of 10 cm.

Southend Hospital had reviewed its window restrictors following a 2007 incident when a patient broke an ankle after jumping from a first floor window, with a 2009 Trust report recommending that 'chain link restrictors or similar be fitted to all metal casement windows'. However, this was 'not followed through'.

Pleading guilty to breaching Regulation 3(1) of the Health and Safety at Work etc, the Trust was fined £15,000, with £15,000 in costs.

HSE guidance on preventing falls from windows is available at: <http://www.hse.gov.uk/healthservices/falls-windows.htm>

News in brief

Kier named as preferred tenderer

West London Mental Health NHS Trust has named Kier as preferred tenderer for the Broadmoor Hospital redevelopment scheme. (*HEJ* – February 2013) in a project set to 'transport the 150-year-old hospital into the 21st century', providing 'a modern, fit-for-purpose environment for services', and securing the future of high secure mental healthcare locally. The announcement coincides with confirmation of project support from the Trust's strategic healthcare partners, NHS Trust Development Authority (NTDA), and NHS England. The DH is expected to make its decision on the Full Business Case shortly.

'World class laboratory' opens

Public Health England (PHE) and the Heart of England NHS Foundation Trust have recently officially opened a new two-storey extension to the current pathology building on the Heartlands Hospital site in Birmingham. Jointly funded in partnership with Public Health England West Midlands, it will accommodate a new centralised core laboratory. Investment in both service redesign and new equipment includes a 26 metre-long automatic track to increase efficiency in processing test results. The facility was designed by architects, RPS, and built by Interserve.

Updated wall protection catalogue

Gradus has updated its wall protection catalogue, which now contains informative 3D and 2D drawings, and information on new products and current legislation. Isometric drawings detail suggested product use for different market sectors, to help users visualise where Gradus wall protection systems can be used most effectively. Magnified 3D views of handrails and wall guards illustrate how products can 'work together'. Also included are details on new products, including the 940 handrail, and the 3400 Dual Rail.

OCS has new Facilities Services MD

International 'total facilities management provider', OCS, has appointed Jane Sheard as UK managing director of Facilities Services. She brings an extensive background in the facilities management marketplace, having worked at a senior management level in a number of well-known FM companies, including Johnson Controls, NG Bailey, and Reliance FM. She was most recently global strategic head of New Product Innovation at ISS.

Medicine management simplified



Abloy UK's supply of high-security CLIQ cylinders and keys to Northern Lincolnshire and Goole Hospitals NHS Foundation Trust to upgrade the security of the drug cabinets at Scunthorpe General Hospital has resulted in 'significant cost and time savings'.

The Hospital had previously used traditional mechanical locks on its drug cabinets, with most wards having several cupboards and fridges, each with a different key. Nurses had spent considerable time determining who had particular keys, and which fitted which lock.

Seeking to streamline the process, and save time and costs, the Hospital trialled Abloy's CLIQ Remote electromechanical locking system on one ward, specifying and supplying high-security cylinders and keys for all drug cabinets and cupboards, and for padlocks on fridges. Every nurse received their own key, individually

programmed to allow them to access the cupboards required. The CLIQ technology also enabled management personnel to amend or delete access rights, collect audit trails from the Abloy Cliq cylinders, and easily delete lost or stolen keys from the system.

Mike Urwin, clinical director of Pharmacy and Medicine Management, Scunthorpe General Hospital, said: "Our trial research showed that nurses typically spend an average 40 minutes per shift looking for keys – 250 minutes lost on a ward every day. Over a year, across all 51 of our wards, the lost time would equate to having an extra 24 nurses on duty every day across the Trust. I believe the Trust should fully implement the Abloy system as soon as possible, and would recommend that others consider trialling the technology to see and experience the benefits for themselves."

'Major investment' towards medical equipment training

EBME managers and technicians attending Eastwood Park for the latest accredited medical equipment training are now benefiting from 'substantial development and investment in this niche technical training portfolio'.

The training centre has invested in both a new 'suite' of medical testing equipment, and in strengthening and expanding its training team resource. EBME specialist, Dr Kenneth Pereira, has been brought in to lead the programme, supported by Andy Falconer, of RM Future Developments, (a former AvenSys Medical employee), alongside engineers from JPen Medical, specialists in on-site testing and calibration of medical/healthcare equipment.

Dr Pereira (pictured, with some of the new equipment), has worked in education, training, and medical electronics, for the past 30 years, and has been involved in updating the current Eastwood Park



course curriculum, and extending the breadth of equipment available for 'hands-on' maintenance training.

Eastwood Park added: "Predominantly the courses provide maintenance skills and knowledge of the most commonly available biomedical equipment. Equally importantly, delegates gain a sound understanding of physiology and electronics, to improve communication and efficiency between technicians and clinicians/physicians."

Business 'as usual' during refurb

It is 'business as usual' for the surgical team at St Peter's Hospital, Chertsey, who have just finished working inside a temporary operating theatre deployed by Vanguard Healthcare – used for a variety of procedures while major refurbishment took place.

St Peter's Hospital used the temporary theatre suite as part of a nine-week programme to treat trauma patients



and conduct orthopaedic surgery while the existing permanent facilities were refurbished. General surgery patients continued being treated in the main theatres.

Vanguard Healthcare is reportedly the world's largest designer and operator of mobile operating theatres and temporary day surgery facilities. Its mobile theatres contain an anaesthetic room, operating room, recovery area, utility areas, and a staff changing room.

Ian Monaghan, sales director, explained: "The mobile unit provided to St Peter's Hospital enabled the maintenance of high quality care with no adverse effect on patient experience during the refurbishment. Our units provide patients with a safe environment, and an experience no different to that in a permanent operating theatre."

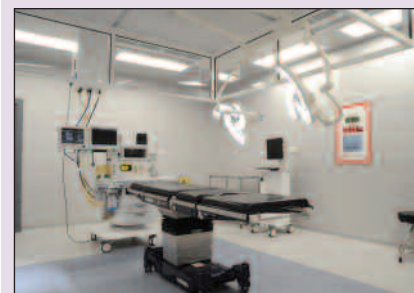
Orthopaedic theatre now 'world-class'

'State-of-the-art' lighting and electrical protection systems supplied and commissioned by Bender UK are enhancing a new £300,000 ultra clean-air theatre for orthopaedic implant surgery at Furness General Hospital, Barrow-in-Furness.

An established single source supplier of OR equipment, Bender UK installed its isolated power supplies, to give advance warning of equipment earth faults; uninterruptable power supplies; a theatre control panel to manage and control the theatre environment, and Steris's 'energy-efficient' XLED operating lamps, for which it is sole UK distributor.

Bender says the XLED's 'innovative LED design' offers 'the ideal intensity and quantity of light for each application', including endoscopic procedures, delivering lighting power up to 160,000 Lux. Each 20 LED spot array is configured to optimise the light, and eliminate shadows. The theatre also features a laminar air flow system from MAT.

Steve Helling, project manager, Bender UK, explained: "The new equipment in the refurbished theatre 5 brings the facility up to a world-class standard, both in terms of lighting, and the electrical infrastructure that supports and protects the theatre equipment."



Simplifying a complex sizing task

Atlas Copco has developed 'an advanced medical air plant calculation tool' to assist with correct selection of a medical air plant based around the different medical gas standards set out within ISO7396-1, HTM 02-01, and HTM2022.

The software tool should help users select both the size and number of compressors needed, and the medical

purifiers and vessels for a specified flow requirement. Those keen to use the new 'tool' should visit the company's website (www.atlascopco.com/Medicalus/tools/tools), complete the required flow and pressure details, and press the 'Calculate' button. They will then receive detailed information on the 'best equipment match' in line with ISO7396-1, HTM2022, or HTM02-01.

The company added: "This calculation tool uses the configurable platform of the newly launched uAIR medical air plant. Users can not only accurately size their plant based on their specific needs – avoiding over-sizing – but can also visualise the complete system, request a quotation, or export the results in a PDF, 'Word', or 'Excel' format.

Starkstrom's 'patient-centred' ICU project

Kettering General Hospital's new £30 m Foundation Wing brings together several specialities previously housed in smaller, 'more out-of-date' accommodation, and should significantly improve the care offered to children, cardiac, and intensive care patients.

Built in close co-operation with clinical staff, it has a particularly impressive new 16-bed intensive care unit – where each bed has a flexible, ceiling-mounted pendant solution from Starkstrom, which worked closely with clinicians to determine the best pendant configurations.

As part of the turnkey package, Starkstrom also supplied isolated and uninterruptible power supplies. It was



selected after clinical and commercial representatives from the Kettering General Hospital NHS Foundation Trust visited, and were impressed by, other examples of its critical care pendant installations. Also

decisive was its ability to act as a single-source supplier.

The Trust's confidence proved well founded, when a flood mid-project meant rebuilding and recommissioning the pendants, which Starkstrom did quickly and efficiently at its Leicester factory.

Dr Phil Watt, clinical lead for KGH's intensive care unit, and a consultant anaesthetist, said: "Kettering General Hospital was England's first district hospital with an intensive care unit, in December 1962. Back then, our predecessors were at the cutting edge of care. Now we are back there, with one of the region's most modern, spacious, and patient-centred, ICUs."

Family firm's further success

Doncaster and Bassetlaw Hospitals NHS Foundation Trust, an established user of Intastop's door and wall protection systems, has selected the company's protective impact wrapping for existing and new doors during a refurbishment programme within the Doncaster Royal Infirmary's medical imaging department.

The requirement was to wrap each door entirely in PVC-u cladding in a particular grey to match existing doors. The refurbishment was commissioned to provide space for new medical imaging equipment.

Sarah Barsby, marketing director, Intastop, said: "We were delighted to win another contract with the Trust – a true testament to the quality and integrity of



our products and service. Located in heavily trafficked areas, the doors needed to be tremendously hard-wearing, and, with several in clinical areas, easy-to-clean. Our Class O fire-rated Impact Protection Sheet was particularly suited to this job."

Paul McGuinness, architectural project officer for Doncaster and Bassetlaw Hospitals, said: "The

contractors had used an alternative door protection product, but, disappointed with its quality, we asked that the doors be wrapped in the Intastop product instead. We have commissioned Intastop products previously, and have always been entirely happy with the quality, service, and professionalism, of both the products, and the team."

Learn first-hand from experts about revised L8

Healthcare estates personnel responsible for the safe management of water systems can put their questions on all aspects of the revised ACoP (L8) document to experts at a one-day 'Q&A' event being held by new training company, Immerse Training, at the Best Western Plus Manor House Hotel, in Meriden, near Solihull, on 11 September.

Panel members will include (chair) Mike Hunter, also chair of the Water Management Society, John Newbold and Dr Paul McDermott, specialists in the control of occupational legionellosis, David Harper, and Dr Suzanne Lee.

Immerse Training said: "The event, designed for anybody with an interest in, or responsibility for, *Legionella* management, will provide an excellent opportunity to hear first-hand from the people who shaped the new Approved Code of Practice & Technical Guidance, and participate in an open question and answer forum." Attendance costs £99, including VAT.

Immerse Training, recently established by experts in the *Legionella* field, offers courses specifically designed 'for those responsible for maintaining safe, healthy, and good quality, water systems'. Its City & Guilds-accredited courses are delivered in the purpose-built Clinical Training Unit at the Wrexham Maelor Hospital in North Wales.

NHS Property Services appoints COO

Dennis Markey has been appointed, and has now taken up the role, of Chief Operating Officer for NHS Property Services – the organisation set up by the Department of Health to develop and manage around 4,000 NHS assets covering estates, property, and facilities, and more than 3,000 staff, following the abolition of Strategic Health Authorities and Primary Care Trusts.

Formerly director, Integrated Services, at Serco Group, with responsibility for running IT, real estate, and facilities management business contracts across



the UK, Ireland, and Europe, his previous experience includes senior directorship roles in prominent companies, including Grontmij, Alfred McAlpine, Hazell Carr, and Capita Group.

Simon Holden, the NHS Property Services CEO, said: "I am delighted to welcome Dennis to the company.

The Chief Operating Officer is a critical role. He brings extensive experience in senior board positions in both UK and internationally-listed property companies, working closely with both private and public sector clients."