

Your partner in innovation...



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Feedback

Do you have any comments on issues raised in this newsletter or would you like us to write about your idea? If so email us at enquiries@medipex.co.uk

Want to see good ideas from NHS staff that we are putting into practice? Visit: www.ennovations.co.uk

NHS Innovations Competition 2008

On May 14th the winners in each category of Medipex's 2008 NHS Innovations Competition were announced at an awards ceremony held at the Royal Armouries in Leeds which was attended by more than 100 people from the NHS, academia and industry from around the region. There were a total of 15 finalists over the 4 categories and for each category the winner received a £2000 cheque to help develop their idea further. The overall winner was a team led by Bipin Bhakta from Leeds Teaching Hospitals NHS Trust for the development of their entry, iPAM, a robotic system to aid recovery after a stroke.



Bipin and the iPAM team, Richard Clark (1st right, Chief Executive, Medipex), Barry Dodd OBE (4th left, Speaker)

The winners were chosen by a panel of independent judges including representatives from each of the sponsors, Urquhart-Dykes & Lord patent agents, Yorkshire Bank, Eversheds, Kirk Newsholme and Yorkshire Forward. Speakers at the awards ceremony included Wendy Tindale, Head of Medical Physics at Sheffield Teaching Hospitals NHS Foundation Trust, Andy Beavis from Hull spin-out company VIRTUAL Ltd and Barry Dodd OBE, who is the chair of CONNECT Yorkshire and a board member of Yorkshire Science.

Assistive Technology & Rehabilitation

Bipin Bhakta, along with the iPAM team from Leeds Teaching Hospitals NHS Trust entered their innovation into the Assistive Technology and Rehabilitation category. The innovation is a robotic system to aid recovery after a stroke. This innovation was the winner in this category but was also awarded the overall winner. The innovation allows patients to undergo additional therapeutic exercise with minimal input from the therapist and helps to address the shortage of hands-on therapy available to stroke patients in the UK.

Runners up

Kimberley Gostolo and Sharon Greensil from Rotherham, Doncaster and South Humber Mental Health NHS Trust submitted their innovation, the Seated Exercise DVD. This DVD is primarily focused towards service users with cognitive impairment. It will provide a working tool for staff to deliver evidenced based exercise for service users from a multitude of areas.

Helena Miles from Bradford Teaching Hospitals NHS Foundation Trust submitted her innovation, the Bradford Smart Walker. This innovation is a rehabilitation device which will allow adult orthopaedic patients and carers to monitor the amount of rehabilitation exercise a patient has undertaken and give motivational feedback. (Continued on page 2)

State of the art facility wins innovation award

A state of the art facility supporting clinical trials and research into childhood diseases, has won the Medipex 'Innovator of the Quarter' award, for its driving force - Dr Jim Bonham.

The Paediatric Clinical Research Facility, based at the Sheffield Children's NHS Foundation Trust (SCH), is the first of its kind in the UK, and is supported by both the Sheffield Children's Hospital Charity and the University of Sheffield.

Comprising of five rooms and a three-bed day unit, the facility will allow doctors and other health professionals to carry out research in a dedicated, fully resourced space, providing the infrastructure to progress high quality paediatric research in Sheffield.

Dr Bonham, Research and Development Director at SCH, has pushed forward plans for the facility for nearly a decade, since he saw a need to change the way research was conducted and managed.

"Our aim was to develop a dedicated paediatric clinical research facility, a safe environment in which



Left to Right Kate Carlisle (Medipex), Jim Bonham, Derek Burke

parents and children would be invited to come and have a look around and participate in these trials, so that the use of paediatric medicines could be optimised," said Dr Bonham.

The 'Innovator of the Quarter' award allows NHS employees from across the Yorkshire and Humber region to nominate a colleague who they feel deserves to be recognised for their innovative approach to delivering care to patients. (Continued on page 3)

NHS INNOVATIONS COMPETITION 2008

CATEGORY WINNERS

Medical devices and diagnostics

The winner of the Medical Devices and Diagnostics category with the Dynamic Cardiac CT Phantom was Giles Morrison. Giles is the Head of Radiological Physics in the Medical Imaging and Medical Physics department for Sheffield Teaching Hospitals NHS Foundation Trust. This innovation is a Dynamic CT Phantom representing the beating heart and descending Aorta. The phantom provides regular heartbeat-like pulses with realistic systolic and diastolic pressures from 30 to 150 BMP and for a range of irregular heart conditions including aneurisms.

Runners up

The runners up within this category were also very impressive. David Brettle from Leeds Teaching Hospitals NHS Trust submitted the 'LiteBox' which uses monitors to view films instead of using the traditional Light Boxes. This innovation was targeted to the Leeds Dental Institute.

Adam Tucker who is also from Leeds Teaching Hospitals NHS Trust entered the PATMit which is a Patient Avoidance of Treatment Interference Mitten. The PATMit prevents interference by the patient with indwelling treatment devices. This is achieved by the glove's padding and by an ability to make the patient's hand into a fist shape thus hampering hand & finger dexterity.

Steve Sharp and Ian Barlow from North Lincolnshire and Goole NHS Trust entered their entry, 'A wide area web-based glucose meter QA program'. Synthetic realistic 'blood samples' are distributed to hospitals and Primary Care users throughout Lincolnshire. The users analyse the samples, submit the results via a web site and the results are analysed. The QA program improves the clinical reliability of blood glucose meters in the region. Dangerous and poor performing meters can be identified and remedial actions taken.



Left to Right John Bell (Yorkshire Bank), Steven Wood on behalf of Prashant Verma, Richard Clark (Medipex)

Software and ICT

Prashant Verma entered his innovation into the Software and ICT category. His winning innovation was named 'Development of a Software package for Photo-therapy treatment planning'. Unfortunately Prashant was unable to attend the awards ceremony so in his place was his colleague Steven Wood, both are from Sheffield Teaching Hospitals NHS Foundation Trust. This innovation relates to a software package for non-ionising radiation treatment plans for patients undergoing narrow-band ultraviolet therapy for treatment of skin complaints such as psoriasis and dermatitis.

Runners up

Gill Brook from Bradford Teaching Hospitals NHS Foundation Trust entered her Caesarean section advice DVD. This DVD is issued to women who are booked in for an elective caesarean section and allows them the opportunity to view this at home prior to admission.

Richard Sykes from Humber Mental Health Teaching NHS Trust submitted his PDA based clinical pharmacy intervention tracker. It is a PDA based system with specialist software that allows pharmacy intervention forms to be completed at the point of occurrence and later synchronised with a pc and analysed centrally.

Richard Jones from Leeds Teaching Hospitals NHS Trust submitted his entry, an Antenatal Ultrasound QA System. Richard and his group have developed this system which is likely to help improve the quality of antenatal screening locally and globally. It will help improve detection of anomalies and the avoidance of unnecessary and dangerous invasive testing during pregnancy. It will help reduce the human effort involved in training and will allow the performance of ultrasonographers to be monitored.



Left to Right Sue Streatfield (Eversheds), Giles Morrison (Winner), Richard Clark (Medipex)

Publications and training materials

Amanda Jackson from Barnsley Primary Care Trust entered her winning innovation, a Parent Information Leaflet about newborn skin, into the Publications and Training category. Amanda's idea originated from there currently being a lack of impartial information for parents which focuses on the need to treat newborn skin carefully and which identifies how essential it is to avoid baby toiletries for the first few weeks of life. There is a wealth of research-based literature relating to the potential dangers of using common baby toiletries in the newborn period. Amanda considers it is essential that families are made aware of this information from an impartial source.

Runners up

Rachael Smith and Jayne Duffy from Calderdale and Huddersfield NHS Foundation Trust submitted the Functional Framework for Competency (since renamed 'the Calderdale Framework'). This is primarily a quality assurance tool providing a clear and systematic method for analysing services and managing delegation to support staff.

Sonya Mills from North Yorkshire and York Primary Care Trust entered her innovation 'Preventing Healthcare Associated Infection Workbook'. It is an A5, 56 page full colour workbook designed to help reduce healthcare associated infection by raising awareness and strengthening infection prevention and control practices.

Janet Hirst from Leeds Teaching Hospital Trust/University of Leeds submitted her innovation, 'Soft Simulated Labouring Services'. The aim of this innovation is to develop and produce a series of models which replicate physiological changes of the cervix during labour. The purpose of the models is to enable midwives and obstetricians to develop skills in digitally assessing a cervix during labour.



Andrea Scully (Yorkshire Forward), Amanda Jackson (Winner), Richard Clark (Medipex)

New member of staff!!



Rebecca Dickinson

Rebecca joined Medipex in February 2008 after 3 years in the retail sector. She studied Business Administration for 3 years and also obtained her BTEC National Diploma for IT Practitioners. Her responsibilities within Medipex are to help manage the annual Innovation Competition and to provide administrative support to the Senior Intellectual Property Managers.

State of the art facility wins innovation award (cont)

Dr Derek Burke, Medical Director at SCH nominated Dr Bonham for the award.

“Jim Bonham’s vision for the future of paediatric research will undoubtedly enable us to contribute significantly to the overall national and local research strategy and continue to help develop innovative and pioneering treatments for children,” said Dr Burke.

Dr Bonham said: “It’s so encouraging to win this award. It’s taken a long time to plan this, and to see it here as a reality has given an enormous sense of satisfaction. I’m sure our researchers and industry partners will put this to good use to benefit the lives of the families and children of the region. We can be justifiably proud and grateful for this marvellous opportunity.”

NHS members of staff can nominate colleagues who have identified a need or a problem and have come up with a solution to that problem. The winning nomination will receive £150 and the nominator a luxury hamper worth £50 for nominating them. Each winner will be featured in our quarterly newsletter which is widely distributed to the NHS and to private companies throughout the Yorkshire and Humber region.

To nominate someone for Innovator of the Quarter, just fill out the enclosed application form.

National Recognition for Calderdale and Huddersfield Innovation

On June 23rd 2008, Karen Middleton the Department of Health Chief Health Professions officer was amongst the guests of Calderdale and Huddersfield NHS Foundation Trust (CHT) recognising the impact that ‘the Calderdale Framework’, one of Medipex’s 2008 innovation competition finalists, has had on the training of healthcare assistants across the rehabilitation directorate in the Trust.

Designed to increase staff productivity and improve the service provided to patients, the first stage of the ‘Calderdale Framework’ works by evaluating what tasks are carried out and by whom. Risk assessments then verify which tasks are safe to delegate to other members of staff. Staff are trained how to assign tasks as well as how to carry them out – this all resulting in a competent and engaged workforce capable of sharing a wide range of roles. In addition, the framework has also managed to achieve validated training for staff by speeding up the NVQ qualification route.

The framework is already used in areas ranging from dietetics and speech therapy to occupational therapy across the Trust; even helping to remove a year-long waiting list for diabetic foot screening. The framework is currently being piloted in nursing at the Trust and is transferable to other health and social care organisations.

Rachael Smith, who co-developed the model with Jayne Duffy at the Trust said: “The framework is a systematic process that takes you through which tasks are safe to delegate. It looks at service and role design and blurs the boundaries across professions – allowing you to identify where risks are and to manage them. We’ve already seen its benefits - there’s higher quality for patients in general now, our complaints have halved, activity has gone up and productivity has increased. Also, costs have been reduced because we no longer have non-qualified staff doing work. As a result of all of these factors, staff satisfaction is at a high and in turn, staff sickness rates have fallen.”



From left to right – Graham Pope (AHP Federation), Judy Lennon (Speech and Language Therapy, CHT), Karen Middleton (DH), Rachael Smith (CHT), Filao Wilson (Skills for Health), Jayne Duffy (CHT) and Elizabeth Foley (AHP Lead, Yorkshire and Humber SHA)

Also amongst the guests on June 23rd were Filao Wilson from Skills for Health and Graham Pope, chair of the AHP Federation. Both praised the work that had been carried out by the Trust recognising that it benefited both staff and patients and had quality of service provision at its heart. Karen Middleton said of the tool: “What is happening here is way ahead. It starts with the patients and is not just profession-led. Looking ahead to the future, there will be changing needs and changing expectations and here is the tool to provide the competent workforce to respond to them”.

A free online version of the tool will be launched on the National Workforce Projects (part of Skills for Health) website (<http://www.healthcareworkforce.nhs.uk>) on July 14th 2008 which will demonstrate how the model works in practice. Further to this, Calderdale and Huddersfield NHS Foundation Trust are running training days on Wednesday September 17th and Thursday November 27th on how to implement the model. Interested parties can find out more and register for the training course by visiting <http://www.enovations.co.uk> and following the ‘What’s New’ link.

What is Medipex?

Medipex is the NHS Innovation Hub for the Yorkshire and Humber region. It is one of a national network of NHS Innovation hubs that manage and exploit Intellectual Property (IP) within the NHS.

IP is any new idea or invention. Such ideas can arise out of routine work as well as research and may result in a product which is commercially valuable.

Example ideas are:

- **Medical Devices and Equipment**
e.g. Motorised Drip Stand used in operating theatres to lift heavy irrigation bags.
- **Diagnostics and Pharmaceutical**
e.g. Novel solution for storing transplant organs; a cancer diagnostic technique to aid cancer detection.
- **Medical Software**
e.g. Software tool to assess motor skills and IT capabilities of users of electronic assistive technology.
- **Training Materials**
e.g. Toolkit to distinguish between service evaluation, research and clinical audit.
- **Radiotherapy**
e.g. Software procedure to assess digital image manipulation, radiographic callipers to accurately size prosthetics from X-ray images.

What can Medipex provide?

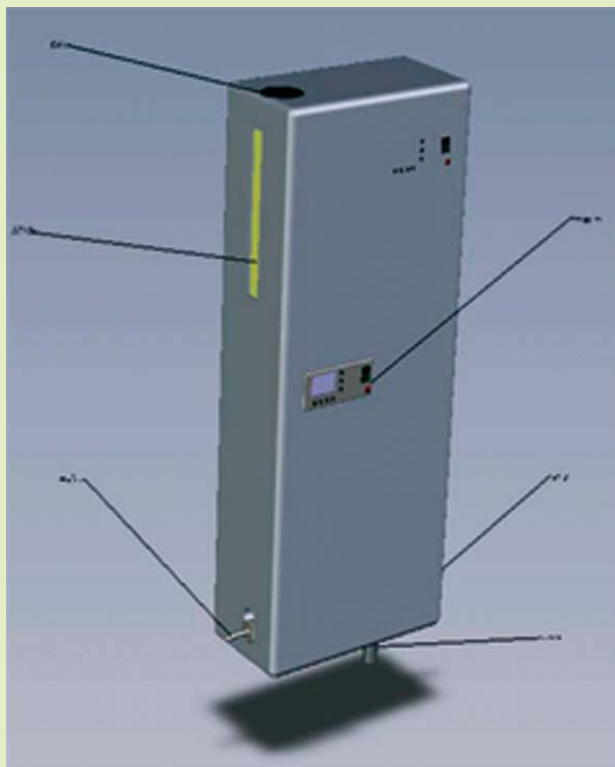
- Confidential advice and guidance
- Identification, assessment and exploitation of invention/ideas
- Expert advice e.g. legal, financial, commercial, sources of funding
- Provision of proof-of-concept funding: buying out time, market intelligence
- Commissioning of prototypes and clinical trials
- Identification of commercial partners and collaborators
- Project management and ongoing support
- Brokering of collaborative R&D (industry and NHS)
- Supporting commercially sponsored research and trials
- Innovative Services: business plans, spin out companies, joint ventures

What next?

All the above services are free to you providing that you work for an NHS trust based in Yorkshire & Humber and your Trust is a member of Medipex. If you are unsure whether your Trust is a member, please contact Medipex on the number below. Any enquiry whether your Trust is a member or not will be treated in strict confidence and if we can, we will give guidance over the phone.



Commercial Opportunity - Fluid Disposal System



It is estimated that NHS Trusts generate 193,000 tonnes of clinical waste every year which includes blood, human tissue and drugs. Current fluid disposal methods often result in clinical waste being taken to landfill in plastic containers. Not only is this financially expensive in terms of waste disposal consumables and environmentally unsustainable, it also requires theatre technicians to handle and move the heavy containers. The containers are also prone to leakage increasing the risk of cross-contamination.

To solve this problem Sheffield Teaching Hospitals NHS Foundation Trust has developed an innovative fluid disposal system where clinical waste goes safely down a drain rather than to landfill. The prototype has been successfully used in urology theatres (with the approval of

Yorkshire Water). Using the new system has helped the Trust make substantial cost savings. For just two urology theatres the annual savings on waste consumables was approximately £30,000. This environmentally friendly fluid disposal system eliminates the need for staff to handle containers and yellow waste bags thereby reducing staff injuries and risk of contamination. The new system is now being requested for use in other hospital departments within the Trust due to its ease of use and the cost-savings that it brings. It is anticipated that other hospitals will greatly benefit from this cost-saving device.

Medipex are now looking for a commercial partner to manufacture, sell and support this innovative fluid disposal system.

Commercial Opportunities

Innovation	Description	Commercial Opportunity
District Nurses' Seat	A lightweight, compact low-level seat for District Nurses to use in the community.	Medipex are currently seeking a partner for manufacture/distribution of this product.
Radiographic Callipers	Allows the accurate sizing of prosthetics from X-ray images.	We are now seeking a partner to commercialise this radiology device.
Urological Digital Diary	An electronic diary used by incontinent patients to record void and times between and volumes of urine.	Medipex require a partner for manufacture/distribution of this product.
Overcoming eating difficulties self help pack	A guided self-help pack for use by people undergoing therapy for eating disorders.	We are seeking a partner for commercialisation of this self help pack.
Cast Blower	A battery powered device to relieve itch and provide comfort to plaster cast wearers.	We are looking for a partner for manufacture/distribution of this device.

Contact Details: Medipex Ltd, NHS Innovation Yorkshire & Humber, Leeds Innovation Centre, 103 Clarendon Road, Leeds LS2 9DF

Email: enquiries@medipex.co.uk

www.medipex.co.uk

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