

Your partner in innovation...



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Medipex NHS Yorkshire & Humber Innovation Competition 2006

NHS Staff in the Yorkshire and Humber Region have demonstrated their innovative skills in developing new ways to provide better patient care at Medipex's second Innovation Competition Awards Ceremony, held in York on March 1st.

This year's competition saw £7,700 of prize money being awarded to the winners. The event was sponsored by Urquhart-Dykes & Lord LLP, Eversheds LLP, Kirk Newsholme and Yorkshire Forward. Members of their staff also presented the prizes.



All the winners

The evening was a great success as members from Trusts across the Region gathered at the National Railway Museum to see their colleagues receive their awards and to hear Dr. Simon Ward, Chief Scientific Officer of York Pharma plc deliver the keynote lecture on 'Naivety – The secret of a successful spin-out?' Last year's first prize winners, Mick Tasker and Daniel Coleman from the REACT Team and Ben Heller and Paul Bacon of the Sway Pen team came back to give a progress report on their innovations and what winning the competition had meant to them.

Medipex contributes to regional economy

We are pleased to report the establishment of a new healthcare company, Aperio Diagnostic Ltd, to carry out applied research to support the use of a diagnostic probe for cervical cancer.

The successful idea has arisen through joint Trust and University research at Sheffield. Medipex was appointed to find a route to market for this technology and successfully concluded negotiations with the funder Exomedica. £175,000 has initially

been raised with a requirement for a further £500,000 to undertake a comprehensive evaluation of the diagnostic probe pioneered by Consultant Gynaecologist Dr. John Tidy at Sheffield Teaching Hospital NHS Foundation Trust and Emeritus Professor Brian Brown from University of Sheffield, Medical Physics. Dr. Terry Corbitt, IP Manager, Medipex, has been appointed as one of the Directors of Aperio Diagnostic.

Recent Commercial Deals

| | | |
|--------------------------------------|---|--|
| Diagnostic Probe for Cervical Cancer | Bio impedance diagnostic probe for detection of cervical cancer | Sheffield Teaching Hospital NHS Foundation Trust and University of Sheffield joint spin out company. |
| HMDS Solution | Procedure/kit for fixing and permeabilising cells. Application as a cancer diagnostic | Leeds Teaching Hospital NHS Trust |
| Knight Bed Attachment | Attachment to operating table to permit spine flexing during spinal surgery | Sheffield Teaching Hospital NHS Foundation Trust |
| Stroma Probe – Pre-term birth | Portable diagnostic probe for pre-term birth screening | Sheffield Teaching Hospital NHS Foundation Trust and University of Sheffield |
| Motorised Drip stand | Battery powered drip stand to prevent heavy lifting of IV fluid bags | Sheffield Teaching Hospital NHS Foundation Trust |
| Panoramic Test Object | Image quality test device for Dental Radiology | Leeds Teaching Hospital NHS Trust |
| SPNET | Integrated procurement tracking database | Leeds Teaching Hospital NHS Trust |

New Software Protection Fact Sheet Available

Medipex, in conjunction with 2006 Innovation Competition sponsor Urquhart-Dykes and Lord LLP have developed a free information sheet available to everyone setting out some facts about software patenting and database rights, as well as answering some frequently asked questions. Copies of this fact sheet and the others in the series can be obtained by contacting Medipex or visiting www.medipex.co.uk



Innovative Device/Technology Category Winners



(L to R) Janet Knowles, Eversheds; Roger Phillips; Andrew Beavis; James Ward; Simon Belcher, UDL

First Prize Winners

First prize was won by Andrew Beavis, Roger Phillips and James Ward from Hull and East Yorkshire Hospitals NHS Trust for Immersive (Virtual Reality) Tools for Clinical Training of Therapy Radiographers.

This virtual reality trainer exactly mimics high energy radiotherapy equipment, the treatment room and the therapy experienced by the patient.

Students using the 3-D simulator walk around the room, operating the equipment and working with the patient and it allows students to familiarise themselves with the equipment and use it on virtual patients, before treating real ones. It is an extremely important breakthrough; Linear Accelerators (LINAC) are very expensive, and in constant use for patient treatment and research therefore student use is limited to clinical placements only.

Andrew Beavis said: "We aim to use the funding to investigate new opportunities to diversify the work into other medical fields so we are not just concentrating on oncology but we can develop exciting new training tools for other specialities as well. The support from Medipex is very useful because as clinicians we do not have the time to learn how to be business people, so in order to develop these opportunities further we definitely need help from people who already know what they are doing."

Joint Second Prize Winners

Joint second prize was awarded to Ben Heller, Chris Chapple and Anand Patel from Sheffield Teaching Hospitals NHS Foundation Trust for EMU – Electronic Measurement of Urgency

Overactive bladder syndrome affects 1 in 6 of the population and many patients become virtually house bound. The condition is difficult to treat effectively because reliable data on frequency and quantity of bladder output is not easy to collect. EMU is a simple hand-held device that patients can use to record the required information for clinicians to make accurate diagnoses.



(L to R) Janet Knowles, Eversheds; Chris Taylor; David Brett; Simon Belcher, UDL

Highly Commended Winners

Highly Commended awards were given to Aejaz Zahid and Graham Newiss from Barnsley Hospital NHS Foundation Trust for Computer Input Device for the Severely Disabled. It assists people who might only be able to control two switches such as a suck blow or eyebrow click to type and hence communicate effectively,

AND

Kevin Beatson from York Hospitals NHS Trust for Making Useful Hospital Statistics Available to the Local Health Community. Key indicator

information in summary form is provided in real time every 15 minutes to operational managers, lead clinicians and bed managers and GPs. This assists with managing patient waits, bed availability, discharges and theatre time – it helps GPs to plan admissions, fast track emergencies and effectively treat minor ailments.



(L to R) Janet Knowles, Eversheds; Ben Heller; Anand Patel; Simon Belcher, UDL

Second prize was also awarded to David Brett, from Leeds Teaching Hospitals NHS Trust for Radiographic Callipers, a device to improve the accuracy of sizing prosthetics such as an artificial hip when relying on a digital X-ray of a patient rather than traditional photographic film images.

Sponsors of the Innovation Competition 2006

The Sponsors presented the prizes to the winners of each category. Presenting the prizes for the Innovative Device or Technology category were Janet Knowles from Eversheds and Simon Belcher from Urquhart-Dykes and Lord. The prizes in the Innovative Service Delivery category were presented by Pauline Lee of Yorkshire Forward and Jill Wright of Kirk Newsholme.



(L to R) Jill Wright, Kirk Newsholme; Pauline Lee, Yorkshire Forward; Simon Belcher, UDL; Janet Knowles, Eversheds



What is the link between Medipex and Eversheds?

Eversheds worked with DoH to set up the legal Framework for the NHS Innovation Hubs around the country. We then went on to work with Medipex to advise them on what in effect became the first Innovation Hub to become a limited company.

Why is Medipex working with Eversheds?

Eversheds has one of the largest healthcare groups in the UK with over 30 years' experience in providing services to this sector. We are advisors to over 100 NHS bodies, major private healthcare providers and purchasers and suppliers to the NHS. Medipex's link partner, Janet Knowles, is also well-known for her expertise in commercialising IP from universities. Medipex uses the **Guide to Spin-Out Companies**, produced by Janet and her team, as a valuable source of advice for NHS researchers and inventors.

Contact: Janet Knowles – janetknowles@eversheds.com



Urquhart-Dykes and Lord

Patent agents UDL have teamed up with Medipex to provide advice to NHS Trusts in Yorkshire and Humberside on patent issues arising from new innovations

In addition to joining the panel of judges for the Medipex Regional Innovation competition 2006, UDL have worked with Medipex's Intellectual Property Managers on multiple patent applications for local trusts. Examples of UDL's services include:

- Working with the originators of a new invention to identify a core concept which can be protected in a patent, to stop competitors from exploiting the same invention, or which are similar and use that concept.
- Researching patents owned by other companies to assess whether the NHS invention would give rise to infringement risks. Infringement risks might be reduced by making small changes to the invention, or by showing that the patents are invalid because of earlier work on similar inventions by other people.
- Advising on patent and other IP aspects of the commercial relationships between Trusts and commercial partners, for example affecting ownership and exploitation rights.

Please contact the Intellectual Property Managers at Medipex for initial advice on IP issues who can then refer you to UDL when appropriate.

Innovative Service Delivery Category Winners

First Prize Winner

First Prize was awarded to **Eric Kilpatrick of Hull and East Yorkshire Hospitals NHS Trust for the 'Hull Statin Calculator'**. This invention is a spreadsheet that allows a GP to establish the correct statin dose for each patient and to review the most cost effective product to achieve the desired results. With 2.5 million people in the UK currently prescribed statin drugs to control cardiovascular risk through its cholesterol lowering properties and five licensed statin drugs available, each with different efficacies and costs, this innovation is particularly timely. On receiving his award Eric Kilpatrick said:

"It's a real privilege to get this award mainly because new ideas coming from Hull raises the profile of healthcare within Hull and hopefully we can disseminate some of the ideas that we have created to other parts of the UK."

"We know that recent NICE guidance for cholesterol lowering has recommended that over five million people in the UK may be eligible for cholesterol lowering treatment. What this tool does is give clinical staff a means of assessing the most appropriate and cost effective way of delivering the cholesterol lowering treatment we currently have."

"An organisation like Medipex is important because the NHS is full of good ideas but often people do not know who to turn to when they do have a good idea, if Medipex makes itself known within each of the primary and secondary care trusts in the region then people with a new idea may be able to see it come to fruition."



(L to R) Eric Kilpatrick; Pauline Lee, Yorkshire Forward; Jill Wright, Kirk Newsholme



The WATCH-IT team with Jill Wright, Kirk Newsholme and Pauline Lee, Yorkshire Forward

Second Prize Winners

Second Prize was awarded to the **WATCH IT Team from Leeds East Primary Care Trust. WATCH IT is a community programme for obese children.** It aims to motivate families to lead healthy lifestyles through a mix of individual appointments, counselling and group activity sessions. Children between 8-16 years of age attend a 12 month WATCH IT programme run by health trainers in the community.

Third Prize Winners

Third Prize winner was **Margaret Pratt from Barnsley Primary Care Trust for the Early Communication Screening Tool.** This is a package aimed at children from 7 months to 3½ years to ensure each child is referred appropriately.

Highly Commended Winners

Highly Commended was awarded to **Samantha Lear and the Audiology Science Team from Sheffield Teaching Hospitals NHS Foundation Trust for Tai Chi as Rehabilitation for patients with Balance Disorders.** Tai Chi has not only been demonstrated to help patients improve their balance but it is also a rewarding social activity and it has helped the hospital reduce its waiting list.

Commended Winners

Commended was awarded to **Sean Bennett, Debbie Pinchon, Jenny Rumsby and Carol Hargreaves from Hull and East Yorkshire Hospitals NHS Trust for the use of EPO to pre-optimize patients before cardiac surgery.** This idea was stimulated by the desire to reduce the amount of transfused blood required for patients undergoing cardiac surgery and EPO, a natural stimulant of haemoglobin is used to achieve this. EPO stimulates the production of red blood cells in the bone marrow and increases blood cell oxygen carrying capacity.

Supported by



Yorkshire Forward

Innovation is the key for regional growth

As pressure on British industry from foreign competition mounts, innovation in science and technology is being widely recognised as one of the key drivers for future economic growth in the UK.

And as the organisation charged with ensuring the future prosperity of Yorkshire and Humber, Yorkshire Forward is committed to supporting innovative research and developments across the region.

One of the areas identified by Yorkshire Forward as a key opportunity for growth and innovation is Healthcare Technologies. For this reason the Regional Development Agency is investing resources to help stimulate this growth.

Yorkshire Forward recognises that the NHS plays a vital role in Healthcare Technologies innovation and so welcomed the opportunity to support the recent Medipex Innovation competition.

Dr. Pauline Lee, Healthcare Technologies Cluster Development Manager at Yorkshire Forward commented:

"Recognising and supporting innovation in the NHS is a vital aspect of Yorkshire Forward's cluster development agenda for Healthcare Technologies. We were therefore delighted to support the Medipex Innovation Awards and were impressed by the quality of entries."



KIRK · NEWSHOLME

The team at Kirk Newsholme were delighted to have been involved with Medipex in the Innovation competition held in March this year.

The firm has worked closely with Medipex since being appointed as the company's accountants and taxation advisors in 2004. Our role is to advise the company on all financial and taxation aspects of the business. Specifically, we maintain the company's accounting records using an up to date mainstream computer software package, which we have tailored to the individual requirements of the company. From these records we are now responsible for the preparation of regular management information, which is used by the company's Board of Directors to manage the business and for the preparation of year-end statutory accounts and taxation returns. We also act as payroll agents for the company and prepare the monthly payroll for processing by the bank.

Our work involves working closely with the management team at Medipex to ensure that up to date information is available to assist with the running of the business and to ensure that all statutory responsibilities of the company are adhered to.

Contact: Jill Wright – jill.wright@kirknewsholme.co.uk

Most entries in a Trust

Finally, not only did Hull & East Yorkshire NHS Trust win first prize in both categories but with 18 entries they also won the innovation award for a Trust with the most entries. This was presented to the Trust's Chief Executive, Stephen Greep by Medipex's CEO Richard Clark.



(L to R) Stephen Greep, CEO, Hull & East Yorkshire NHS Trust; Richard Clark, CEO, Medipex

What is Medipex?

Medipex is the NHS Innovation Centre for the Yorkshire and Humber region. It is one of a national network of NHS Innovation centres 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:

- Devices and equipment
- Diagnostics and therapies
- Software
- Training materials
- Pharmaceutical products and processes

Aims and Objectives of Medipex

- To ensure the financial benefits of IP created by the NHS are returned to the NHS
- To identify, assess and commercialise new ideas and innovations leading to improved patient care
- To develop clear IP exploitation policies with NHS Trusts and other NHS bodies
- To ensure that non-commercial but valuable ideas are disseminated and adopted throughout the NHS

What can Medipex provide?

- Advice and guidance on protecting your IP
- Identification, assessment and exploitation of IP
- Training and education about protecting and exploiting IP
- Access to expert advice e.g. legal, financial and commercial
- Identification of potential commercial partners
- Evaluation of IP and initiation of further R&D
- Commissioning of prototypes and clinical trials including access to proof-of-concept funding
- Construction of useful IP exploitation strategies
- Assistance with the IP portfolio for the annual R&D report

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 is treated in strictest confidence and if we can, we will give guidance over the phone.

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

Fire Simulator Training Device

Overview

The Fire Simulator Training Device is a self-contained solution that directly mimics the conditions of a real fire, including smoke, sound and flames, whilst providing a realistic and safe environment ideal for the effective training of individuals.

The Benefits

The key areas of benefit from The Fire Simulator Training Device are that it provides a safe and effective way to train staff in the correct procedure in the event of a fire - within a realistic environment.

This can encompass all key aspects of fire training, such as ward evacuation procedures, and as the device can be controlled from an infra-red remote handset that operates all the functions of the simulator, the training provider has total management of the scenario at all times.



Another key aspect of The Fire Simulator Training Device is its portability, meaning that it can be used anywhere in the modern healthcare environment, ensuring that safety, as well as adherence to Department of Health guidelines, is maintained.

The Next Steps

We are seeking to identify a company that is interested in manufacturing or supplying The Fire Simulator Training Device. Relevant markets for the technology include hospitals, schools, local authorities, oil and chemical environments, the armed forces, fire fighting and rescue services.

Other Commercial Opportunities

| | | |
|--------------|---|---|
| DFOR | Software procedure to assess image manipulation | Leeds Teaching Hospital NHS Trust |
| EPAQ | A touch screen electronic patient questionnaire for pre-consultation evaluation of patient symptoms | Sheffield Teaching Hospital NHS Foundation Trust |
| Iceberg Amie | Software for renal management | Leeds Teaching Hospital NHS Trust/University of Leeds |
| PC Cart | Mobile cart for tablet pc and portable keyboard in recovery room | Sheffield Teaching Hospital NHS Foundation Trust |
| LOGIN | QA procedure for viewing quality of filmless X-rays and digital media | Leeds Teaching Hospital NHS Trust |

Medipex at Nursing Times Live

Medipex along with TrustTECH and NHS Innovations North attended the Nursing Times Live exhibition in Manchester on March 26th and 27th under the 'NHS Innovations' banner.

Over the two days, staff from the three hubs spoke with more than 300 nurses from around the UK (including a number from the Yorkshire and Humber region) to let them know of the services that are available to them from the NHS Innovation Hubs. A number of those spoken to said that they had had ideas in the past but had not done anything about them because they didn't know who to get advice from, but now they knew about the existence of the innovation hubs they would explore their ideas once again. Of the event, Ann Starkey, General Manager of Medipex said: "Nurses represent a group of NHS professionals who are full of good ideas, but who we often have difficulty getting in touch with. Events such as this are really useful to us because we can get the message about the hubs across to members of this group of highly skilled professionals who will hopefully spread the word about the activities of the hubs to their colleagues."

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