

Support Moorfields Eye Charity Make Sight Your Legacy



Please complete this form and return to the FREEPOST address:

**Moorfields Eye Charity, FREEPOST NAT9528,
162 City Road, London EC1B 1BR.**

Gifts left by people in their wills, which are sometimes referred to as legacies or bequests, have played a crucial role in supporting Moorfields since it opened more than 200 years ago. Including Moorfields Eye Charity when making or updating your will is straightforward to arrange. Gifts can be left for general use or for a particular purpose, such as research into a specific eye disease.

'Moorfields. It's the best eye hospital in the world!'

Agnes, a Moorfields' patient who has left a gift in her will to support the work of the hospital

'Leaving a gift in your will can help Moorfields to develop new treatments, prevent vision loss and restore sight'

Declan Flanagan, Medical Director at Moorfields Eye Hospital

If you would like to remember Moorfields Eye Charity in your will, please return this freepost form by detaching along the perforated line and sealing the gummed edges, and we will be in touch to provide you with the information you need and/ or to address any questions you may have.

Please tick as appropriate

- My will already makes provision for Moorfields Eye Charity
- I intend to make provision for Moorfields Eye Charity
- Please send me more information
- Please call me on _____ Tel: _____

Title: _____ Name: _____

Address: _____

Postcode: _____

Email: _____

- I am happy for Moorfields Eye Charity to contact me by email (please tick)

Please note: All the information you provide us with will be treated in the strictest confidence by Moorfields Eye Charity in line with the Data Protection Act 1998.

- Please tick this box if you do not wish to receive any further information.

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Developing OpenEyes in Scotland

Delivery of excellence in health care requires good quality information available in the right place, and at the right time. This is true for the clinical management of an individual patient and for reliable audit, analysis of outcomes, research, revalidation and resource management.

OpenEyes is a collaborative, open source project led by Moorfields Eye Hospital, with the aim of producing a world class ophthalmology electronic patient record (EPR) system. Ophthalmic

units of any size, from a single practitioner to a large eye hospital, can make use of the structure, design and code to produce a functional easy to use EPR at minimal cost.

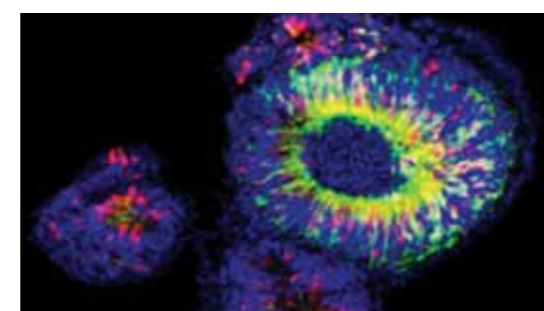
Thanks to funding support recently secured from the Barcapel Foundation, OpenEyes is being developed and tested in Scotland. The initial collaboration is with NHS Fife on cataract module implementation. For further information, please go to www.openeyes.org.uk



Former Moorfields Eye Hospital medical director and ophthalmic consultant Mr Bill Alyward has been instrumental in developing the OpenEyes project.

Boost for regenerative research

A machine which can analyse thousands of cell particles a second has been funded in part with charitable support and will boost Moorfields and the UCL Institute of Ophthalmology's world leading regenerative medicine programme.



The first on-site fluorescence-activated cell flow cytometer will be used in the development of the photoreceptor, Müller Cell and corneal limbal cell transplantation programmes.

Flow cytometers can actively separate cells types to purify the populations of cells of interest. It is essential for improving the ability to refine cell populations for transplantation and to drive the developments necessary to pull current pre-clinical innovation

through to human trials.

Despite different causes, age-related macular degeneration and most inherited retinal disorders culminate in the same final common pathway, the loss of photoreceptors. One of the programmes which the facility will support is photoreceptor transplantation research. This programme is developing photoreceptor replacement as a broad treatment strategy applicable to all degenerations. As previous studies have identified the need to transplant a purified population of cells, this new machine will enhance the number and purity of cells in order to increase the efficiency with which transplanted cells integrate within the host recipient retina.

New tool for surgical training

For surgeons, training in the small adjustments to movements and handling of instruments that ensure efficient, successful surgeries are skills learned over time but which are difficult to convey.

To address this issue Moorfields' consultant George Saleh (pictured below) and colleagues have recently validated one of the first direct motion analysis systems that assesses the movements of surgical instruments in the eye during cataract surgery. Charitable support is allowing him and his team to extend this work to provide individualised feedback to trainees, with patients



ultimately benefiting from the skill improvement in theatre.



Visibility

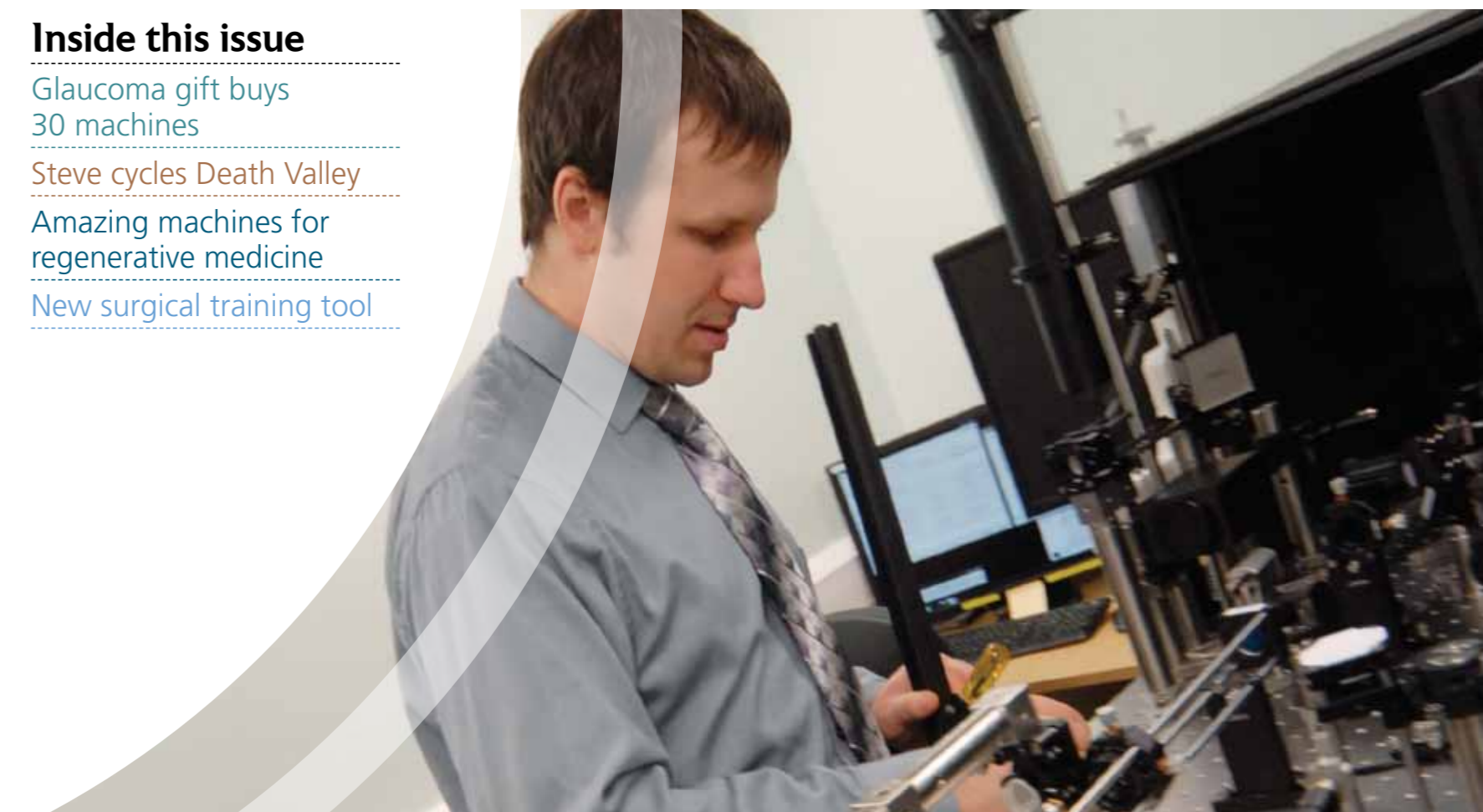
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A new adaptive optics imaging system at Moorfields – the most advanced in Europe

I am delighted to have the opportunity to thank the many Moorfields Eye Charity supporters and foundation trust members for their overwhelming response to my fundraising appeal last summer. It was for help towards purchasing two highly innovative lasers and optical components for developing the most advanced retinal imaging technology anywhere in Europe. Nearly £100,000 was donated and we can now significantly expand the capacity and capabilities of this advanced ocular imaging tool

for examining people's retinas with an unparalleled degree of clarity and precision.

The Adaptive Optics system is truly remarkable. With it we can diagnose and treat patients far more quickly and accurately than ever before. In some cases we may be able to prevent sight loss entirely and it may potentially be valuable for all retinal conditions. Retinal conditions represent the commonest cause of visual impairment in the developed world.

We have now placed orders for the lasers and optical components which enable us to look at structures in the retina such as the tiniest blood vessels, that we were unable to previously see in the living eye. We hope to have them installed by March 2014 and to be able to start this new imaging in earnest shortly afterwards.

This system will improve our understanding of retinal disease and facilitate the development of new therapies over the coming years. →

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Generous donation for glaucoma diagnosis



Mark Pigott KBE

Moorfields Eye Hospital received a generous donation for glaucoma medical equipment from industrialist and philanthropist Mark Pigott KBE in appreciation of the excellent medical assistance he received at the hospital during 2013. The gift will enable the

hospital to replace and upgrade 30 Humphrey visual field machines which are critical to the treatment of glaucoma patients.

Moorfields Eye Hospital's chief executive, John Pelly said: "We are delighted that Mr Pigott had such a positive experience at our hospital and are thrilled that he has made this very generous donation. The Humphrey visual field machines are important in delivering world-class treatment to our patients with glaucoma and the new and upgraded machines provided by Mr Pigott's generosity will enable us to provide faster journey times for patients, and improve the patient experience, as well as help us to diagnose glaucoma earlier."

Mr Pigott, chairman and chief executive officer of PACCAR (www.paccar.com) said: "Moorfields Eye Hospital provided excellent medical service, in a timely manner, and my family and I are very appreciative of their efforts. We are pleased to assist Moorfields in updating their glaucoma testing machines and continuing to be a leader in eye research."

"Mr Pigott's generosity will enable us to provide faster journey times for patients."

New machine plays critical role in retinal repair research

The last *Visibility* highlighted some of the work of Professor Robin Ali and Professor Jim Bainbridge's research group which has been at the forefront of developing gene and cell therapy approaches aimed at restoring sight.

Their stem cell programme has undergone significant expansion in the last year as they have built a comprehensive programme of work to develop stem cell therapy for retinal repair. Essential for these programmes is the use of a fast protein liquid chromatography (FPLC) based virus vector production system.

Their current system reached full capacity some time ago which meant an upgrade to a new machine, the AKTA Pure L, was needed. Its purchase was made possible through a number of charitable donations and now it will significantly increase the efficiency and

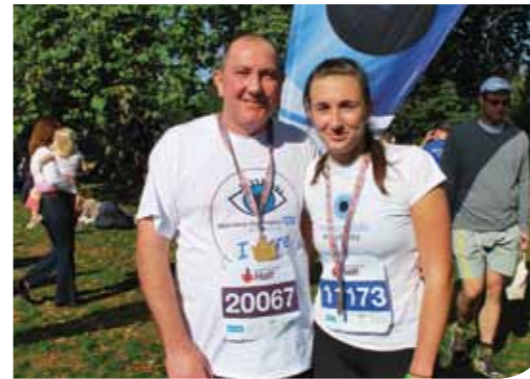
productivity of this research.

The professors and their research teams carried out the world's first clinical trial to show that people with inherited blindness can benefit from improved sight following gene therapy and they are now planning clinical trials for other conditions.



Fast protein liquid chromatography (FPLC) based virus vector production system.

Cyclists and runners raise £70,000 for Moorfields Eye Charity



Steve and Danielle Bailey

Last August a team of 70 joined 20,000 other riders to take part in the first ever RideLondon-Surrey 100 and raised over £60,000.

The RideLondon team included eight cyclists raising money for Aniridia research – The Fairy Queen Dream Team – which was assembled by supporter Elly Chapple. Her daughter Ella (the Fairy Queen), suffers from the rare condition which includes symptoms such as glaucoma, severe photosensitivity, corneal pannus and keratopathy. Elly set up the *Shine the Light on Aniridia campaign*, which has raised approximately £80,000 to date including £9,000 at RideLondon.

Half marathon

Adding to the sporting total was a team of 13 which took part in the Royal Parks Foundation Half Marathon, raising just under £10,000. Made up of grateful patients, their families and friends and Moorfields' staff, the team included father and daughter team, Steve and Danielle Bailey.

At the age of 15 Danielle contracted a corneal abscess in her left eye which nearly left her blind. Danielle says: "The work and commitment of the staff at Moorfields saved my sight and seven years down the line, I have gained pretty much most of my sight back. This would have been impossible without Moorfields."

Moorfields Eye Charity has places in the RideLondon-Surrey 100 for the next two years, and the Royal Parks Foundation Half Marathon in 2014. If you are interested in taking part in either event, please contact Rebecca Kingdom-Kruszewski on **020 7566 2486** or **rebecca.kruszewski@moorfields.nhs.uk**.

New for September 2014

Following feedback from our supporters and patients at the hospital, we want to introduce Moorfields' first ever bespoke challenge event in 2014. It will be a brand new, family friendly walk and/or run challenge event in London. We hope many of our supporters and the hospital's grateful patients, who would like to help raise funds for Moorfields, can take part. Our favoured period in the calendar is during National Eye Health Week from 22-28th September. Further details will be sent out in the spring but you can register your interest now! Please email **eyecharity@moorfields.nhs.uk** or call **020 7566 2565**.



Steve cycles Death Valley to raise over £24,000 for eye cancer research

Steve Matthews cycled 420km in average temperatures of 24°C through Death Valley, California, last November to raise over £24,000 for consultant Daniel Ezra's research into eye cancer. Steve's wife Nikki is suffering from a rare form of cancer and in order to save her life she needs to lose her eye. Steve said: "It was both hot and hard work but it was nothing compared to what Nikki is going through or what the staff at Moorfields deal with every day of the week."

Adaptive Imaging Optics continued from page 1

→ Having this technology at Moorfields will also open up a huge range of possibilities for the accurate diagnosis of eye conditions; and is again a demonstration of the critical difference charitable support is making to a world-renowned hospital.

To all those who kindly contributed, thank you!



Dr Michel Michaelides
Consultant,
Moorfields
Eye Hospital

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