

# Trust eye doctor is a true pioneer

**M**r Nick Lee is a Consultant Ophthalmologist at the Trust, whose pioneering work has recently earned him the position of President of the Ophthalmic arm of the Royal Society of Medicine (RSM).

An early adopter of innovative technology and techniques at the cutting edge of Ophthalmology, his achievements include being ahead of the game in conducting Saturday eye clinics and surgical procedures. He was also an early advocate for the use of both Toric contact lenses (that also correct astigmatism) and new equipment for cataract surgery. In addition Mr Lee has adopted modern treatments for macular degeneration and keeps patient records and prescriptions electronically.

Not content with providing top-quality care for our eyes, he also helped evacuate victims from the British Virgin Islands following the devastation caused by Hurricane Irma.

However one of his most impressive achievements has been his involvement in the development of Optical Coherence Tomography of the eye. This involves using the latest angiography - a

type of laser technology - which is able to detect the flow of blood in the small blood vessels of the eye, avoiding the need for invasive imaging.

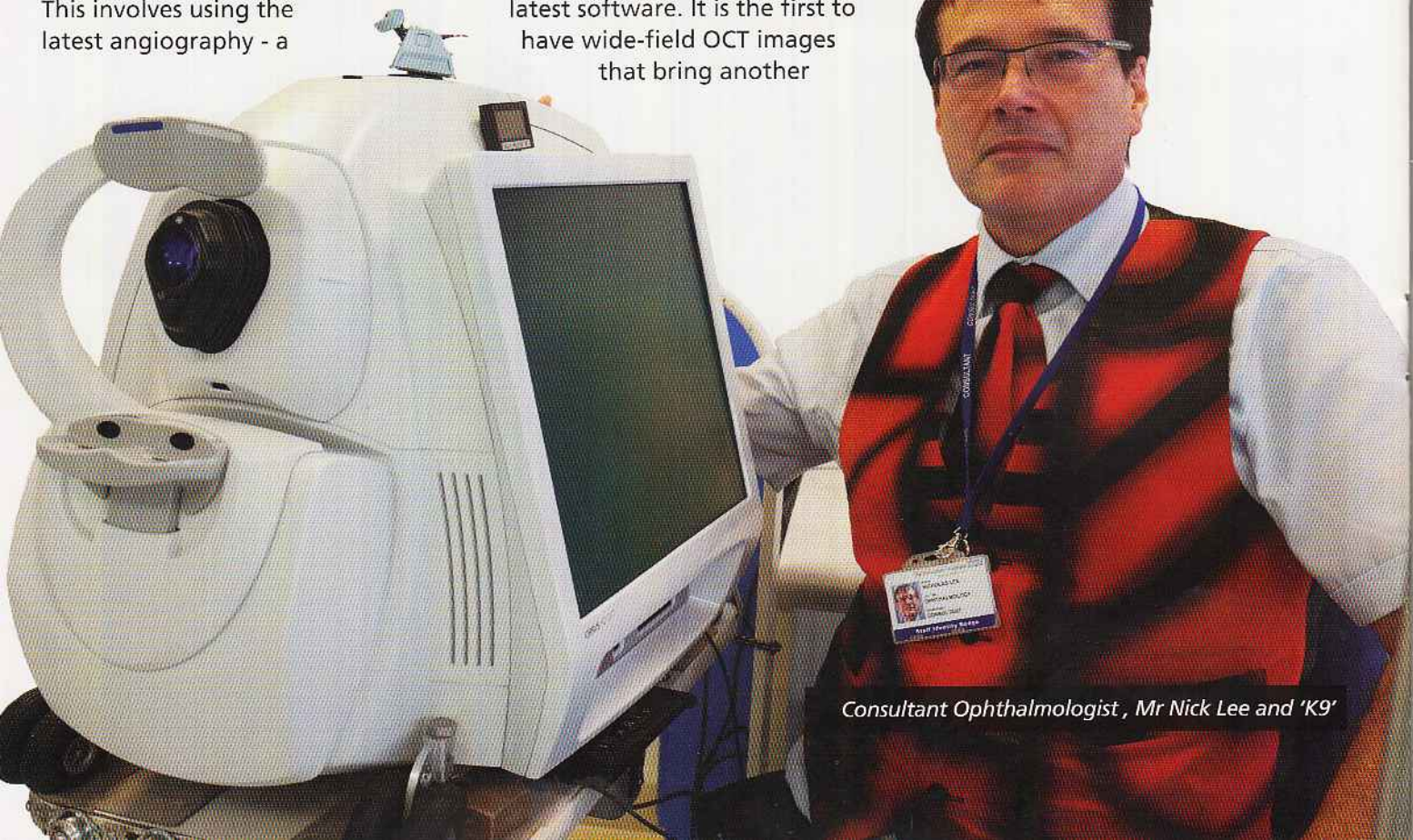
Optical Coherence Tomography (OCT) is a way of looking into the layers of the retina at the back of the eye, rather like a MRI scan of the brain. It gives incredible detail of this delicate and highly important layer that changes light into electricity to send back to the brain for us to see. Many eye diseases like macular degeneration and diabetic retinopathy affect this layer and for the first time we can image this in incredible detail.

The machines that create this imaging are highly costly and also in great demand. Undeterred, Mr Lee designed and built the first mobile OCT machine which is named 'K9.' It has travelled with him to all his clinics over the past nine years. K9 ensures he has the very latest machine with the very latest software. It is the first to have wide-field OCT images that bring another

dimension to imaging of the eye.

At his recent presidential address, Mr Lee presented stunning new wide-field OCT images together with the emerging wide-field fundal photography - which is like a panoramic shot on a camera. It shows a much greater area of the retina in very fine detail that was not possible before. These developments are taking us into a whole new era of high-quality imaging of the eye that will lead to better diagnosis, better decisions and better care for patients.

Continuing with innovation, Mr Lee's presentation was the first address of the Ophthalmic Section of the RSM to be webcast, making it available to a much wider audience. You can view the talk here: <https://vimeo.com/294558137/c13f96df57>.



Consultant Ophthalmologist, Mr Nick Lee and 'K9'