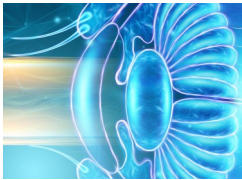


**LI
CAMBRIDGE
OPHTHALMOLOGICAL SYMPOSIUM**

7th - 8th September 2023



Engineering and the Eye

St John's College, Cambridge, UK

Co-Chairs:

Dr Paul Meyer, Cambridge, UK

Prof Ian Wilson, Cambridge, UK

Scientific Organiser: **Mr Martin Snead**, Cambridge, UK

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51th Cambridge Ophthalmological Symposium
Engineering and the Eye
7th - 8th September 2023

Co-Chairs:

Dr **Paul Meyer**, Cambridge, UK, &
Prof **Ian Wilson**, Cambridge, UK

Academic Organiser:

Mr **Martin Snead**, Cambridge, UK

The Cambridge Ophthalmological Symposium is awarded 18 CPD points by the Royal College of Ophthalmologists.

Evaluation survey

Your feedback about the Symposium is invaluable to the Cambridge Eye Trust and to the speakers involved in the meeting.

Please complete your evaluation online via the survey link sent in the email to delegates or at www.cambridge-symposium.org.uk/evaluation.

Thank you

CPD certificates will be sent to delegates via email shortly after the meeting.

Thursday 7th September 2023

Examination of the eye

08:45 Welcome Martin Snead Cambridge, UK

09:00 Painting unseen worlds Jonathan Brett Oxford, UK

09:30 Structure, transparency and refractive power of ocular tissues Keith Meek Cardiff, UK

10:00 Mesoscopy: pushing the optical microscope beyond the limits of the human eye Brad Amos Cambridge, UK

10:30 *Coffee*

11:00 Engineering for a clear image: a comparative focus on accommodation David Williams Cambridge, UK

11:30 Living histopathology: interrogation of ocular tissues by light Paul Meyer Cambridge, UK

12:00 Modern modalities of optical examination Marinko Sarunic Not present London, UK

12:30 *Lunch in The Hall*

14:00 Wide-field retinal imaging Conor Leahy Dublin, USA

14:30 Imaging the photoreceptor mosaic with adaptive optics scanning light ophthalmoscopy Alfredo Dubra Stanford, USA

15:00 Hyperspectral imaging and the diagnosis of systemic disease Peter van Wijngaarden Melbourne, Australia

15:30 *Tea*

16:00 Magnetic Resonance Imaging of the eye and orbit Martin Graves Cambridge, UK

16:30 Surgery by light: Excimer laser, corneal refractive surgery, corneal cross-linking John Marshall London, UK

17:00 Close

Friday 8th September 2023

Engineering approaches in ocular disease and its management – drug delivery, vitreo-retinal disease, glaucoma

09:00	Drug delivery and distribution in the eye	Eamonn Gaffney	Oxford, UK
09:30	Fluid flow in the eye	Rodolfo Repetto	Genoa, Italy
10:00	Sustained-release drug delivery systems	Rachel Williams	Liverpool, UK
10:30	<i>Coffee</i>		
11:00	Biomechanics of PVD	Martin Snead	Cambridge, UK
11:30	Refinements in the use of intraocular tamponades	Ian Wilson	Cambridge, UK
12:00	Biomechanics of the optic disc	J. Crawford Downs	Alabama, USA
12:30	<i>Lunch in The Hall</i>		
14:00	Genetic engineering and the eye	Keith Martin	Melbourne, Australia
14:30	Imaging of aqueous outflow in health and glaucoma. Justifying the re-direction of aqueous	Jed Lusthaus	Sydney, Australia
15:00	Aqueous outflow and the regulation of intraocular pressure	Murray Johnstone	Washington, USA
15:30	<i>Tea</i>		

Engineering solutions in ophthalmology

16:00	Engineering for safer micro-surgery	Luis Diaz-Santana	Cambridge, UK
16:30	Robotics in ophthalmic surgery	Jasmina Kapetanovic	Oxford, UK
17:00	Machine Learning	Matthew Juniper	Cambridge, UK
17:30	Close		