

BOWMAN Club

25th March 2022

**St John's College
Cambridge**

Delegate Programme

A silhouette of a city skyline, likely Cambridge, is visible at the bottom of the page. It features various buildings, including a prominent tower and a bridge, set against a light purple background.

Welcome to BOWMAN Club 2022

Dear fellow BOWMAN Club members

Welcome to Cambridge!

I am so pleased to see so many of you joining us for the 2022 meeting. Thank you for taking the time and effort to attend.

I am sure you are very much looking forward to seeing everyone in person rather than via a computer screen. It is something we all took for granted a few years ago and value so much more now.

Today we have a chance to take a break from our day-to-day commitments, and the continuing challenges we face, to debate and discuss topics of joint interest in the field of cornea. We are joined this year by the UK ocular pathologists in a special combined session and our distinguished guest Professor James Chodosh, Boston, USA will be delivering the David Easty annual lecture. We have a fantastic programme ahead, time to catch up with old friends and the new members of the BOWMAN Club. Your participation and enthusiasm is key to the success of this meeting and to the future of the UK cornea society.

Enjoy the day.

Madhavan Rajan MD FRCS FRCOphth, BOWMAN Club Host 2022

Consultant Ophthalmologist, Cambridge

Registration desk: Open 08:00 - 17:30

Louise Richards will be available if you have any questions about proceedings.

WIFI access

There is a good 4G mobile signal around the College. If you do require WIFI, please see the inside back cover for the steps required to access the St John's visitor WIFI.

CPD

The Royal College of Ophthalmologists approves BOWMAN Club 2022 to award **6** self-accredited points to the meeting.

- An e-copy of your CPD Certificate will be emailed to you shortly after the meeting once your attendance has been confirmed.

Meeting evaluation

Your feedback about the meeting is invaluable to BOWMAN Club and to the speakers presenting. Please complete your evaluation survey online by the 15 April 2022. The survey link emailed to all delegates before the meeting is also available via the meeting website:

- www.baop-bowmanclub2022.co.uk/bowman-club-evaluation.

BOWMAN Club Programme Friday 25th March 2022

Lecture Theatre - Old Divinity School

09:00 - 09:10	Introductions and welcome	Madhavan Rajan Cambridge
09:10 - 10:00	Fellow presentations - BOWMAN prize 2022 Co-Chairs: John Sharp , Cambridge & Kirithika Muthusamy , London	
09:10 - 09:20	Conjunctival genetic 'fingerprinting' in ocular mucous membrane pemphigoid	Jesse Panthagani Birmingham
09:20 - 09:30	Long-term outcomes of rebubbling and graft detachment in Descemet membrane endothelial keratoplasty using a standardised protocol	Lana Fu London
09:30 - 09:40	Personalised model to predict keratoconus progression from demographic, topographic and genetic data	Olivia Li London
09:40 - 09:50	Descemet membrane endothelial keratoplasty patching (DMEP) - selective endothelial replacement in eyes with localised endothelial dysfunction	Luis García-Onrubia London
09:50 - 10:00	Discussion and presentation scoring	All
10:00 - 10:45	Corneal infection Chair: Frank Larkin , London	
10:00 - 10:15	Antimicrobial resistance - Should we be worried?	Stephen Tuft London
10:15 - 10:30	iCAM array - a one stop diagnostic test for all microbes	Martin Curran Cambridge
10:30 - 10:45	Non-antibiotic treatment of microbial keratitis	Stephen Kaye Liverpool
10:45 - 11:15	Coffee & Tea Break - The HALL, St John's College with BAOP	

JOINT MEETING - BAOP & BOWMAN Club

BAOP & BOWMAN Club
2022 JOINT MEETING

11:15 - 13:00	Co-Chairs: Dominic G O'Donovan , Cambridge & Madhavan Rajan , Cambridge	
11:15 - 11:30	Pathological correlation of severe corneal diseases	
	Rituximab for severe Mooren's ulcer <i>Case presentations and discussion</i>	Mayen Briggs, Erika Damato, Dominic O'Donovan & Madhavan Rajan All Cambridge
11:30 - 12:00	Pathology & genetics of corneal dystrophies Dr Caroline Thaug Consultant Ophthalmic Pathologist, Moorfields Hospital & University College London (UCL), London, UK	
12:00 - 13:00	Professor David Easty Annual Lecture: SARS-CoV-2 and the eye Professor James Chodosh Edith Ives Cogan Professor of Ophthalmology, Harvard Medical School, Boston, USA	
13:00 - 14:00	Lunch - The HALL St John's College with BAOP	

BOWMAN Club Programme Friday 25th March 2022

Lecture Theatre - Old Divinity School

14:00 - 15:18	Surgical cornea Co-Chairs: Emma Hollick , London & Tom Poole , Frimley	
14:00 - 14:13	Femtosecond enabled keratoplasty techniques for keratoplasty	Hatch Mukherjee Colchester
14:13 - 14:26	Preloaded Descemet membrane endothelial keratoplasty grafts with endothelium outward	Vito Romano Liverpool
14:26 - 14:39	Our experience of DMEK wet lab-training course as a precursor to starting DMEK service at NHS Trusts during COVID-19 pandemic in UK	Tina Khanam London
14:39 - 14:52	Corneal neurotisation using the greater auricular nerve: a novel solution for congenital trigeminal anaesthesia	Nicola Lau London
14:52 - 15:05	Subconjunctival silicone oil - presentation, histology and surgical management	Melanie Corbett London
15:05 - 15:30	NHS Blood and Transplant (NHSBT) - an update to all corneal surgeons	Jeremy Prydal , Leicester. Cathy Hopkinson & Shaminie Shanmugaranjan , Bristol
15:30 - 16:00	Coffee & Tea Break - The HALL St John's College	
16:00 - 16:30	Boston K-pro TYPE 1 - Clinical experience and an update	James Chodosh Boston, USA
16:30 - 17:09	Corneal research Chair: Stephen Kaye , Liverpool	
16:30 - 16:43	Keratoconus in the young - KERALINK study results	Frank Larkin London
16:43 - 16:56	Gut microbiota dysbiosis as a driver of inflammation in ocular mucous membrane pemphigoid	Saaeha Rauz Birmingham
16:56 - 17:09	Topical insulin in the management of persistent corneal epithelial defects	Sajjad Ahmad London
17:09 - Close	Announcement of the BOWMAN prize and BOWMAN Club Member discussion	
	19:00 for 19:30: BOWMAN Club Gala Dinner accompanied by music from the Cambridge Rose Quartet: The Hall, Old Court, Gonville and Caius College <i>Drinks Reception from 19:00, sit-down to Dinner 19:30.</i>	

Dr **Caroline Thaug**

Consultant Ophthalmic Pathologist, Moorfields Hospital and University College London (UCL), London, UK

Caroline Thaug FRCOphth FRCPath DPhil has been a Consultant Ophthalmic Pathologist at Moorfields Eye Hospital since 2009. She works within the Department of Eye Pathology, UCL Institute of Ophthalmology, London, one of the four English laboratories within the National Specialist Ophthalmic Pathology Service.

Caroline graduated from Glasgow medical school, and worked in Ophthalmology in Glasgow before undertaking her DPhil in Ophthalmology in Oxford. Her doctoral work was performed at the MRC Mammalian Genetics Unit, Harwell, on the topic of mouse models of inherited eye disease. Caroline then trained in Histopathology in Manchester before moving to London.

She is keen to integrate understanding of ophthalmic pathology into clinical care and posts educational topics on her website at <https://eyepathlondon.com> as well as on Twitter @eyepathlondon. She is a longstanding member and former Secretary of the British Association for Ophthalmic Pathology.

Professor David Easty Annual Lecture: SARS-CoV-2 and the eye

Professor **James Chodosh**

Edith Ives Cogan Professor of Ophthalmology, Harvard Medical School, Boston, USA

James Chodosh, MD, MPH is the Edith Ives Cogan Professor of Ophthalmology, Harvard Medical School (HMS) and Massachusetts Eye and Ear (an HMS affiliated hospital). He serves as Vice Chair for Education, Director of Diversity and Inclusion, Associate Director of the Cornea and Refractive Surgery Service, Associate Director of the Infectious Disease Institute, Director of the Ocular Burn Service, and Director of Boston Keratoprosthesis. He is also a member of the HMS PhD Program in Virology, and is the senior author for the American Academy of Ophthalmology web pages on COVID-19, which garnered over 1.5 million views.

He completed his residency in Ophthalmology at Baylor College of Medicine, clinical fellowship in Corneal Diseases at the Bascom Palmer Eye Institute, postdoctoral research fellowship in Virology & Molecular Biology and Infectious Diseases at St. Jude Children's Research Hospital, and Masters of Public Health degree at the University of Oklahoma. He served as Chair of the Anterior Eye Disease NIH Study Section, on the National Advisory Eye Council for the NIH, and is currently Chair of the FDA Dermatologic and Ophthalmic Drugs Advisory Committee. Dr. Chodosh has published over 360 peer reviewed papers and book chapters, and was co-Editor-in-Chief of the British Journal of Ophthalmology. He is a recipient of the Alcon Research Institute Award, and four awards from Research to Prevent Blindness. A dedicated teacher with many teaching and mentorship awards, he has personally trained over 70 clinical cornea fellows, and mentored over 20 medical students under-represented in medicine. He is internationally known and respected for his work on viral genomics and pathogenesis, and on development and use of the Boston keratoprosthesis for severe corneal blindness. His basic research program on adenovirus pathogenesis and evolution has been continuously funded by the NIH since 1996, and his current funding runs through 2026. He also invented and patented a new, low-cost keratoprosthesis, the "Lucia", to address blindness in low resource countries. His primary clinical interests include infectious eye disease, ocular chemical injury, Stevens Johnson syndrome, and the restoration of seemingly hopeless cases of corneal blindness with the Boston keratoprosthesis. He is dedicated to improving the quality of life for every person with vision loss, and particularly those who may be otherwise underserved, and to growing diversity, equity, and inclusion in his profession of Ophthalmology and in healthcare systems at large.

Tribute to Professor David Easty

David Easty, well-known to members of the Bowman Club, died on 11 January this year. John Armitage, Emeritus Professor at Bristol Medical School offers this personal remembrance.

David moved to Bristol in 1972 to take up a consultant post in ophthalmology at Bristol Eye Hospital after working under Barrie Jones at Moorfields Eye Hospital in London. At that time, ophthalmology was part of Bristol University's Department of Surgery. David was instrumental in establishing ophthalmology as a separate department and he became the first Professor and Head of the new Department of Ophthalmology in 1982.

From that point on, David built up a world-renowned research department.

Although his research interests were wide-ranging, he is perhaps particularly noted for his research into herpes infection in the eye and into corneal immunology and graft rejection. He especially encouraged trainee ophthalmologists and cornea fellows, including a number of prominent Bowman Club members, to become involved in research and teaching, notably on the MSc course in ophthalmology he set up for overseas doctors and which ran successfully for many years. David also gave many basic scientists excellent opportunities to pursue research projects and encouraged them to present their work at major national and international conferences.

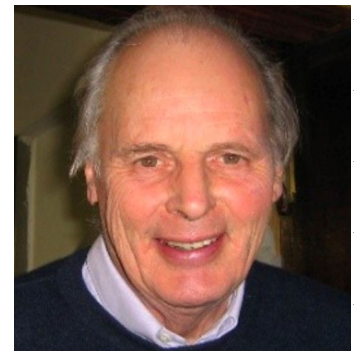
Apart from David's significant contributions to clinical ophthalmology, eye research and teaching, one of his major legacies was the support provided to corneal transplantation through his collaboration with the former UK Transplant Service (UKTS), the organ matching and distribution service for the UK and Ireland. The idea was to establish a similar distribution service for corneas. In October 1983, David and Ben Bradley, Medical Director of UKTS, launched the Corneal Transplant Service, with funding from the Iris Fund for the Prevention of Blindness run by Susanna Burr, to distribute eyes from donors to hospitals wherever they were needed in the country. In the meantime, the Bristol Eye Bank was set up, introducing the storage of corneas by organ culture to the UK for the first time. This technique extended corneal storage from four days at 4°C in M-K medium, the best available at the time, to four weeks. David transplanted the first organ cultured corneas from the eye bank in March 1986. In the first year, 59 corneas were distributed to 11 hospitals and within two years almost 1000 corneas a year were being provided to hospitals throughout the UK and Ireland. The Manchester Eye Bank, set up by Alan Ridgway and Andrew Tullo in 1988 became part of this service in 1989.

A major advantage of the extended storage offered by organ culture coupled with the national distribution service through UKTS was that corneal transplantation was transformed from an emergency out-of-hours operation to an elective procedure that could be planned well in advance.

Another important initiative was the passing of the Corneal Tissue Act 1986, which allowed eyes to be removed from deceased donors by trained NHS staff who were not registered medical practitioners. This change greatly increased the chance that eyes would be retrieved from donors whenever they were offered.

The Corneal Transplant Service continued after David's retirement in 1999, and by 2015, when the Bristol and Manchester eye banks transferred to NHS Blood and Transplant, almost 70,000 corneas had been provided for the treatment of patients. It continues to this day as a fitting tribute to David Easty.

(NB. Fuller obituaries by John Illman appeared both in The Times and the British Medical Journal on 18 February 2022.)



*Professor David Easty
1933-2022*

Notes

BOWMAN Club Sponsors

BOWMAN Club thanks all its Sponsors for their support at the 2022 meeting.

Please take the opportunity to visit their stands in the **Hall**.

Representatives are available throughout the day.

In alphabetical order:



1 Connect to wireless network: **"St Johns Visitors"**
Enter the WPA2 Passphrase: **"mesouvient"**

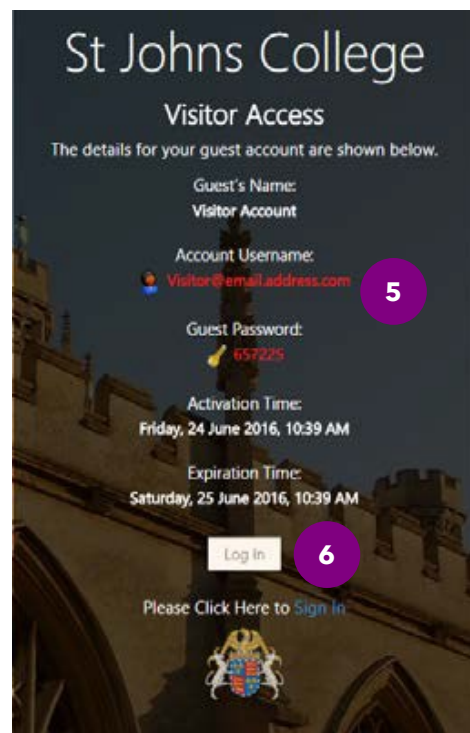
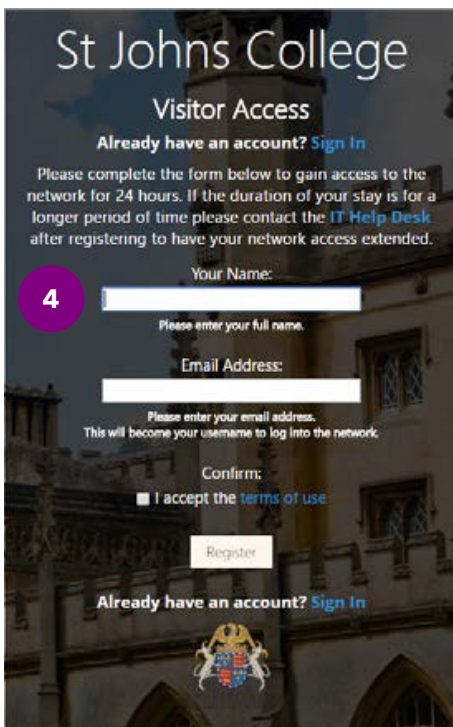
2 Open a web browser - you will be redirected to the Visitor Access Login screen.

3 You need to create an account.
Click - **"Click Here"** at the bottom.



4 Registering for an account -
a) Enter your full name and email address.
b) Accept the College's Terms of Use.
c) Click **"Register"**.

5 On the next screen you will be given your Account Username and Password.
These details will be sent to the email address you registered with.
You will need these details to register any other devices you may wish to connect.



6 Click on the **"Log In"** to connect.

Please note that Visitor accounts are only valid for a 24-hour period. You will be required to reactivate the account again after the time has elapsed.

7 Adding devices or reactivating your Account (after 24-hours)
Connect to wireless network: **"St Johns Visitors"**, enter the WPA2 Passphrase: **"mesouvient"**
Open a web browser and browse - you will be redirected to the Visitor Access Login screen.
Enter the Username and Password from the email you were sent. Accept Terms, click **"Log In"**.

BOWMAN Club

**We look forward to seeing you at
the 2023 BOWMAN Club meeting!**

**Save the date
3 March 2023
Birmingham**

