

# Optics and Photonics for Healthcare Diagnostics

**Tuesday 10<sup>th</sup> March 2025**  
**LT2 Sibson Building, University of Kent**

10:00 - 10:30	<b>Arrival and Registration, Tea and Coffee</b>
<b><u>Introduction Session</u></b> Chair: Prof Mark Smales	
10:30 - 10:40	<b><i>Welcome and Introduction to CADDA</i></b> <b>David Wilkinson</b> Pro Vice Chancellor - Director of Human & Social Sciences
10:40 – 10:42	<b>RECORDED CONTRIBUTION FROM NEW YORK,</b> <b>Professor Richard Rosen</b> , New York Eye and Ear Infirmary of Mount Sinai, Vice-Chair of the Department and Director of Research and Surgeon-Director, Ophthalmology, Honorary Doctorate University of Kent
10:42 – 10:50	<b><i>Overview of biomedical optics and modern photonics: 30 years of contributions at Kent</i></b> <b>Prof Adrian Podoleanu</b> , University of Kent
<b><u>Session 1</u></b> Chair: Prof Adrian Podoleanu	
10:50 - 11:20	<b><i>Optical spectroscopy for label free surgical diagnostics</i></b> <b>Prof Daniel Elson</b> , Imperial College London
11:20 - 11:50	<b><i>The NHS 10 Year Health Plan - Developing Optical Diagnostics “Fit for the Future”</i></b> <b>Prof Taran Tatla</b> , London North West Hospitals NHS Trust

11:50 - 12:00	<b><i>AOG Talk: Imaging through fibres: endoscopic and miniaturised imaging for minimally invasive diagnosis</i></b> <b>Dr Michael Hughes</b> , University of Kent
12:00 – 12:45 <b>Lunch</b>	
<b><u>Session 2</u></b> Chair: Prof Kathy Kotiadis	
12:45 – 13:15	<b><i>Advanced Dynamic Light Scattering for Non-invasive Transcranial Blood Flow Visualisation</i></b> <b>Prof Igor Meglinski</b> , Aston University
13:15 – 13:45	<b><i>Transcutaneous fluorescence sensing for non-invasive assessment of gut function</i></b> <b>Dr Alex Thompson</b> , Imperial College London
13:45 – 13:55	<b><i>AOG Talk: Synergistic optical biopsy: fusing structural optical coherence tomography with functional optoacoustics</i></b> <b>Dr Adrian Bradu</b> , University of Kent
13:55 – 14:05	<b><i>AOG Talk: Biomedical optics for robotic surgery</i></b> <b>Dr Manuel Marques</b> , University of Kent
14:05 – 14:30 <b>Tea and Coffee</b>	
<b><u>Session 3</u></b> Chair: <b>Dr Paul Meakin</b>	
14:30 - 14:45	<b><i>Unlocking Point-of-Care Diagnostics: Harnessing Optics for Real-time Data</i></b> <b>Neciah Dorh</b> , CEO of Fluoretiq
14:45 - 15:20	<b>Industry and Translation Panel Session</b>
15:20 - 15:50	<b><i>Functional retinal imaging with optoretinography</i></b> <b>Prof Marinko Sarunic</b> , Institute of Ophthalmology, University College London
15:50 - 16:20	<b><i>Light for Fabrication, Sensing, and Micro-manipulation</i></b>

	<b>Dr Jang Ah Kim, Imperial College London</b>
16:20 - 16:30	<b>Closing remarks: Dr Paul Meakin</b>
16:30 - 17:00	<b>Networking Session / Tea and Coffee</b>
17:00 - 18.00	<b>Visits to Optics Lab (Optional)</b>