



# PHASE 2023

## *Photonics for Health, Atmosphere, Safety and Education*

**An Indo-UK workshop on Applied Photonics**

**funded by the Distinguished International Associates programme**

**Royal Academy of Engineering, UK**

**30-31 March 2023, IIT Gandhinagar, India**

**Day 1**

**Venue: AB 1/101 Lecture theatre**

<b>Time slot</b>	<b>Speaker</b>	<b>Topic</b>
09:00 - 09:30	Ken Grattan, City, University of London, UK	Optical Fibre Sensors-based solutions for infrastructure monitoring
09:30 - 10:00	B M Azizur Rahman City, University of London, UK	Optical sensors for water quality monitoring
10:00 - 10:30	Nirmalya Ghosh IISER Kolkata	Emerging polarized light methods for probing nano-scale structural anisotropy
10:30 - 11:00	Balaji Srinivasan IIT Madras	Challenges and opportunities in distributed acoustic sensing
11:00 - 11:30	<b>Tea break</b>	
11:30 - 12:00	Ayan Banerjee IISER Kolkata	Microbubble lithography: patterning live matter towards rapid, parallelized diagnostics
12:00 - 12:30	Supradeepa V R IISc Bangalore	Wavelength-agile high power fiber laser sources
12:30 - 13:00	Renu John IIT Hyderabad	Optical coherence tomography, system development and clinical applications
13:00 - 14:00	<b>Lunch break</b>	
14:00 - 14:30	Jayaprakash IISc Bangalore	Deep learning advances in photoacoustic imaging
14:30 - 15:00	Goutam Samanta PRL, Ahmedabad	Hilbert's hotel paradox using structured beams
15:00 - 15:30	Anirban Roy, Forbes Marshall, Pune	Photonic gas sensors for industrial emission monitoring
15:30 - 16:00	<b>Tea break</b>	
16:00 - 17:30	Poster session	Student participants will present posters to describe their research
19:30 - 22:00	Conference dinner	



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**Day 2**

**Venue: 10:00: 11:20 Jasubhai Memorial Auditorium**

**12:00 onwards AB 6/201**

<b>Time slot</b>	<b>Speaker</b>	<b>Topic</b>
10:00 - 10:30	Gilberto Brambilla University of Southampton, UK	Distributed optical fibre sensing for safety and environmental monitoring
10:30 - 10:45	Loveleen Garg GIFT City, Gandhinagar	GIFT City - what lies ahead
10:45 - 11:00	Chandan Kumar Jha & Rupsha Mukherjee Galanto Innovations, Gandhinagar	Lab to market: opportunities and challenges
11:00 - 11:20	Panel discussion	Srikanth, Sai, Balaji, Chandan, Anirban, Goutam, Loveleen, Gilberto, Ken
11:30 - 12:00	<b>Tea break</b>	
12:00 - 12:30	Suheshkumar Singh IISER Thiruvananthapuram	Microscopic resolution imaging of whole eye with photoacoustic microscopy: development of experimental system and algorithm
12:30 - 13:00	Ratan Saha IIIT Allahabad	Biomedical photoacoustics: modelling to healthcare applications
13:00 - 14:00	<b>Lunch</b>	
14:00 - 14:15	Kuldeep Jajoria, IITGN	Fiber Bragg grating based sensors for biomedical ultrasound applications
14:15 - 14:30	Shruti De, IITGN	Trace gas sensing using tunable diode lasers
14:30 - 15:00	V V Raghavendra Sai IIT Madras	Fiber optic sensor solutions for clinical diagnostics, environmental monitoring and food safety
15:00 - 15:30	Srikanth Sugavanam IIT Mandi	Two simple techniques for real-time intensity and spectral measurements for mode-locked fibre lasers
15:30 - 16:00	Saumyakanti Khatua IIT Gandhinagar	Plasmon-driven solar energy conversion to green fuel
16:00 - 16:30	<b>Tea break</b>	
16:30 - 18:30	Lab visits	