

# Bringing the Nanoworld Together 2020

DAY 1 AGENDA | 3 December 2020

## Quantum Technologies

11:00 – 11:15	<b>WELCOME</b>   Mr. Mangesh Kulkarni, Oxford Instruments
11:15 – 11:30	<b>INAUGURAL</b>   Dr Vijayaraghavan, TIFR - Mumbai
11:30 – 12:00	<b>PLENARY TALK   RELAXATION OF A TRANSMON QUBIT FROM UNCONFINED STATES AND RESURGENCE OF COHERENCE</b> - Dr Vibhor Singh, IISC – Bangalore
12:00 – 12:30	<b>BREAK</b>
12:30-13:00	<b>COMPREHENSIVE SOLUTIONS FOR QUANTUM TECHNOLOGY DEVELOPMENT: QUBITS, QUANTUM SENSORS &amp; QUANTUM COMMUNICATION</b> - Dr Ravi Sundaram, Oxford Instruments Plasma Technology, UK
13:00-13:30	<b>KEYNOTE   THE NATIONAL QUANTUM COMPUTING CENTRE AND A ROADMAP TOWARDS QUANTUM ADVANTAGE</b> - Dr Michael Cuthbert
13:30-14:00	<b>IMPORTANCE OF ACHIEVING LOW ELECTRON TEMPERATURES IN BUILDING QUANTUM DEVICES</b> Dr Klaus Ensslin, ETH Zurich
14:00 – 14:30	<b>BREAK</b>
14:30 – 15:00	<b>CHARACTERISATION OF QUANTUM SYSTEMS AND MATERIALS USING AFM</b>   Dr Jonathan Moffat, Oxford Instruments Asylum Research, UK
15:00 – 15:30	<b>POLARITON DEVICES BASED ON VAN DER WAALS MATERIALS</b> Dr Biswanath Chakraborty, IIT Jammu
15:30 – 16:00	<b>BREAK</b>
16:00 – 16:30	<b>A QUANTUM DIAMOND MICROSCOPE FOR MAPPING MAGNETIC FIELDS</b> Dr Kasturi Saha, IIT - Bombay
16:30 – 17:00	<b>ADVANCED DETECTOR SOLUTIONS FOR QUANTUM OPTICS</b>   Dr Colin Coates, Oxford Instruments Andor, UK
17:00 – 17:10	<b>POSTER AWARDS, FINAL REMARKS AND CLOSE OF DAY 1</b>

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DAY 2 AGENDA | 4 December 2020

## Advanced High-Speed Microscopy and Analysis

11:00 – 11:15	<b>WELCOME</b>   Mr Mangesh Kulkarni, Oxford Instruments
11:15 – 11:30	<b>INAUGURAL</b>   Dr Krishanu Ray, TIFR - Mumbai
11:30 – 12:00	<b>PLENARY TALK   ALTERED MEMBRANE COMPOSITION DISRUPTS CXCR4 SIGNALLING DURING CELLULAR SENESCENCE</b> - Dr Deepak Saini, IISC - Bangalore
12:00 – 12:30	<b>BREAK</b>
12:30 – 13:00	<b>MICROSCOPY AND ANALYSIS SOLUTIONS FROM OXFORD INSTRUMENTS</b> Dr Andrew Masters, Oxford Instruments
13:00 – 13:30	<b>KEYNOTE   HIGH-SPEED TISSUE/ORGAN IMAGING IN SINGLE CELL RESOLUTION</b> Dr Li An Chu, Brain Research Centre, National Tsing Hua University, Taiwan
13:30 – 14:00	<b>BREAK</b>
14:00 – 14:30	<b>MAKING AND MOVING SYNAPTIC VESICLES</b> Dr Sandhya Koushika, TIFR - Mumbai
14:30 – 15:00	<b>DRAGONFLY, A MULTIMODAL PLATFORM ADAPTED FOR LARGE VOLUME IMAGING (EXAMPLE: EXPANSION MICROSCOPY)</b> Dr Sebastian Bellow, Oxford Instruments Andor, UK
15:00 – 15:30	<b>BREAK</b>
15:30 – 16 :00	<b>MULTI-COLOUR ELECTRON MICROSCOPY: USING ENERGY DISPERSIVE X-RAY SPECTROMETRY TO IMAGE AND ANALYSE BIOLOGICAL SAMPLES</b>   Dr Louise Hughes, Oxford Instruments NanoAnalysis
16:00 – 16:30	<b>IMARIS - THE IDEAL SOLUTION TO INTERACTIVELY ANALYZE MICROSCOPY IMAGES</b> Dr Daniel Reisen, Oxford Instruments Imaris, UK
16:30 – 17:00	<b>MYCOBACTERIUM TUBERCULOSIS GLYCOLIPIDS DISORGANIZE HOST CELL MEMBRANES AND REWIRE MEMBRANE MECHANICS DURING INFECTION</b> - Dr Shobhna Kapoor, IIT - Bombay
17:00 – 17:10	<b>POSTER AWARDS, FINAL REMARKS AND CLOSE OF DAY 2</b>

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