

NANO: FROM SCIENCE TO TECHNOLOGY	
8:00 -9:00	REGISTRATION
9:00- 9:30	INAUGURATION AND INTRODUCTION Prof. Sudhakar Panda - Director, NISER, Dr Ian Wright, Oxford Instruments, UK, <i>Mr. Mangesh Kulkarni-India Country Director, Oxford Instruments & Dr. Shubhankar Bedanta, Convenor BTNT 2019, NISER</i>
9:30-10:00	HIGH-TEA
SESSION I	
10:00-10:30	KEYNOTE Electronics and mechanics at nanoscale with one atom thick graphene , Prof. Mandar Deshmukh, Tata Institute of Fundamental Research, Mumbai
10:30-11:00	PLENARY TALK Elemental Mapping Techniques: Application to Nanostructures , Prof. Satyam Parlapalli, Institute of Physics, Bhubaneswar
11:00-11:15	BREAK
	<div style="width: 48%; background-color: #f9a825; text-align: center;">SESSION II: FABRICATION (PLASMA TECHNOLOGY)</div> <div style="width: 48%; background-color: #9b59b6; text-align: center;">SESSION III: CHARACTERISATION (NANOSCIENCE)</div>
11:15-11:45	<div style="width: 48%; background-color: #f9a825; padding: 5px;"> Introduction to general etch technology Dr Ian Wright, Oxford Instruments, Singapore </div> <div style="width: 48%; background-color: #9b59b6; padding: 5px;"> Switching thermometry: How to measure temperature by flipping a coin? Prof. Maciej Ludwik Zgirski, Institute of Physics, Polish Academy of Sciences (IP PAS) </div>
11:45-12:15	<div style="width: 48%; background-color: #f9a825; padding: 5px;"> Introduction to general deposition technology: ICP CVD, PECVD, ALD Mr. Gurpal Singh, Oxford Instruments, India </div> <div style="width: 48%; background-color: #9b59b6; padding: 5px;"> Charge to spin current conversion efficiency: role of topological insulator, antiferromagnetic and Heusler alloy <i>Dr. Braj Bhusan Singh</i>, National Institute of Science Education and Research </div>
12:15-12:45	<div style="width: 48%; background-color: #f9a825; padding: 5px;"> Silicon Nanophotonic Devices for Optical Communication and Interconnects. Dr. Mukesh Kumar, Indian Institute of Technology - Indore </div> <div style="width: 48%; background-color: #9b59b6; padding: 5px;"> The equilibration dynamics of polarized quantum Hall edges at graphene p-n junction Prof. Anindya Das, Indian Institute of Science -Bangalore </div>
12:45-13:15	<div style="width: 48%; background-color: #f9a825; padding: 5px;"> ALD & Plasma Enhanced Chemical Vapour Deposition (PECVD) in Photovoltaics <i>Dr. Shekhar Bhattacharya</i>, KAUST, Saudi Arabia </div> <div style="width: 48%; background-color: #9b59b6; padding: 5px;"> Edge state fractionalization at Integer Quantum Hall boundary Dr. Tanmay Maiti, Saha Institute of Nuclear Physics Kolkata </div>
13:15-14:45	LUNCH
	<div style="width: 48%; background-color: #f9a825; text-align: center;">SESSION IV</div> <div style="width: 48%; background-color: #9b59b6; text-align: center;">SESSION V</div>
14:45-15.15	<div style="width: 48%; background-color: #f9a825; padding: 5px;"> Fabrication techniques for Graphene and 2D materials-based devices: Growth & Etch <i>Dr Ian Wright</i>, Oxford Instruments, Singapore </div> <div style="width: 48%; background-color: #9b59b6; padding: 5px;"> Flux coupled hybrid cavity-qubit electromechanical system Prof. Vibhor Singh, Indian Institute of Science -Bangalore </div>
15:15-15:45	<div style="width: 48%; background-color: #f9a825; padding: 5px;"> Electron Beam and Ion Beam Technology for Nanofabrication Mr. Otto Carel, Raith Nanofabrication, Germany </div> <div style="width: 48%; background-color: #9b59b6; padding: 5px;"> Static and dynamic magnetization in magnetic antidot lattice arrays Dr. Sougata Mallick, University of Paris Saclay </div>
15:45-16:15	<div style="width: 48%; background-color: #f9a825; padding: 5px;"> Photonic Integrated Circuits for On-chip Sensing Platforms Mr. Viphretuo Mere, Indian Institute of Science -Bangalore </div> <div style="width: 48%; background-color: #9b59b6; padding: 5px;"> Extending your microanalysis capabilities with EBSD: from CCD to CMOS technology Dr. A. R. Renjith, Oxford Instruments, India </div>
16:15 - 18:00	TEA AND POSTER SESSION

9:00-9:30	REGISTRATION	
	SESSION VI	
9:30-10:00	PLENARY TALK Chemically exfoliated few layer MoS ₂ : What do we understand of its properties, Prof. D.D. Sharma, Indian Institute of Science - Bangalore	
10:00-10:30	BREAK	
	SESSION VII: CHARACTERISATION (NANOSCIENCE)	SESSION VIII: LIFE-SCIENCES
10:30-11:00	Quantum information processing with multi-modal superconducting circuits Prof. Rajamani Vijayaraghavan, Tata Institute of Fundamental Research - Mumbai	A Microscopy Journey from nm to cm resolution Mr. Colin Wright, Oxford Instruments Andor Technology
11:00-11:30	Universal Dynamics of Interface in Thin Films seen from the studies on Magnetic Domain Walls Motion Prof. Vincent Jeudy, University of Paris Saclay	Nanobioceramic Coatings for orthopaedic applications Dr. T.M. Sridhar, University of Madras
11:30-12:00	Phase transition & dielectric relaxation mechanism of Perovskite-type framework Dr. Varadarajan Sridharan, Indira Gandhi Centre for Atomic Research	The Ideal Solution to Interactively Analyze Microscopy Images Mr Daniel Reisen, Imaris - Bitplane (Webex Session)
12:00-12:30	Charge amplification approaching the quantum limit Prof. Madhu Thalakulam, Indian Institute of Science Education and Research Thiruvananthapuram	Overcoming Uncertainties in The Nano-Mechanical Characterization of Biological Cells Using AFM Based Nanoindentation Technique Prof. Vishwanath Managuli, Manipal Institute of Technology (MIT-MAHE), Karnataka
12:30 - 14:00	LUNCH	
	Session IX: MATERIALS RESEARCH	
14:00 - 14:30	Luminescent thermometry, Prof. K K. Nanda, Indian Institute of Science -Bangalore	
14:30 - 15:00	Insulator mediated coupling between ferromagnet and superconductor in heterostructures, <i>Dr. Champalal Prajapat, Bhabha Atomic Research Centre, Mumbai</i>	
15:00 - 15:30	Tailoring the electronic properties in synthetic cuprate layers, <i>Prof. Debakanta Samal, Institute of Physics, Bhubaneswar</i>	
15:30 - 16:00	Surface and Interface study of various materials using TOF-SIMS Prof. Manas Dalai, CSIR - Institute of Minerals and Materials Technology - Bhubaneswar	