

BIST Symposium on Microscopy, Nanoscopy, and Imaging Sciences February 9th 2018 Institute of Photonic Sciences (ICFO), Castelldefels, Spain	
8:15-9:15	Registration
9:15-9:30	Welcome
9:30-11:00	<p>Session on Electron Microscopy <i>Chair: Jordi Arbiol (Catalan Institute of Nanoscience and Nanotechnology (ICN2), Barcelona, Spain)</i></p> <p>Quantitative Transmission Electron Microscopy of Advanced Nanomaterials: Applications in Multiferroic Oxides and Nanomagnetism <i>César Magén (Instituto de Ciencia de Materiales de Aragón (ICMA, CSIC-University of Zaragoza, Zaragoza, Spain)</i></p> <p>Pushing the Limits of Electron Energy Loss Spectroscopy for Materials Characterisation: From Phonons to Core Losses in Real and Momentum Spaces <i>Quentin Ramasse (SuperSTEM Laboratory, Daresbury, UK)</i></p> <p>Advances in cryo-TEM for Life Sciences <i>José L. Carrascosa (Centro Nacional de Biotecnología, CSIC, Madrid, Spain)</i></p>
11:00-11:30	Coffee break
11:30-13:00	<p>Session on Scanning Probe Microscopy <i>Chair: Aitor Mugarza (Catalan Institute of Nanoscience and Nanotechnology (ICN2), Barcelona, Spain)</i></p> <p>STM and nc-AFM for single molecule imaging, spectroscopy and manipulation <i>Jose Ignacio Pascual (Nanoscience Cooperative Research Center, CIC-Nanogune, San Sebastián, Spain)</i></p> <p>Novel functional properties at ferroelectric domain walls: insights from scanning probe microscopy <i>Patrycja Paruch (University of Geneva, Geneva, Switzerland)</i></p> <p>Frontiers in high resolution microscopy: The emergence of multifrequency force microscopy <i>Ricardo García (Instituto de Ciencia de Materiales de Madrid, CSIC, Spain)</i></p>
13:00-14:30	Lunch & posters

14:30-16:00	<p>Session on Imaging Technologies <i>Chair: To be confirmed</i></p> <p>Introduction To Medical Imaging <i>Machiel Kolstein (Institute of High Energy Physics, IFAE, Barcelona, Spain)</i></p> <p>Massive cosmological data analysis, distribution and generation using a Big Data platform <i>Jorge Carretero (Institute of High Energy Physics IFAE/PIC, Barcelona, Spain)</i></p> <p>Precise imaging of distant galaxies: mapping the invisible Universe with weak gravitational lensing <i>Ramon Miquel (Institute of High Energy Physics, IFAE, Barcelona, Spain)</i></p>
16:00-16:30	Coffee break
16:30-18:00	<p>Session on Advanced Optical Microscopy <i>Chair: María García-Parajo (The Institute of Photonic Sciences (ICFO), Castelldefels, Spain)</i></p> <p>Super-resolution imaging of the extracellular space in living brain tissue <i>Valentin Naegerl (University of Bordeaux, France)</i></p> <p>High-throughput light sheet fluorescence microscopy (HT-LSFM) for the analysis of 3D human progenitor cell organoids <i>Francesco Pamploni (Goethe University, Frankfurt, Germany)</i></p> <p>Probing the environment: from nanoscale architecture to mesoscale dynamic spatial patterns of mechanosensory podosomes <i>Alessandra Cambi (Radboud University Medical Center, Nijmegen, The Netherlands)</i></p>
18:00-19:00	Drinks