

Schedule of the Keynote Reports

Tuesday, 30 July, Conference Hall, 4F

Time	Topic	Speaker
Session Chair: Ulrich F. Keyser		
08:20 – 08:50	New Applications of Volume Inscription of Materials with Femtosecond Lasers	Santiago Miguel Olaizola (Spain)
08:50 – 09:20	MEMS Meta-Optics	Karl F. Bohringer (USA)
09:20 – 09:50	Nano Robot Enabled <i>in Situ</i> Sensing and Manipulation for Biomedical Applications	Ning Xi (Hong Kong SAR)
09:50 – 10:20	Gels in Biomedicine: Controlling Structure to Improve Performance	Dror Seliktar (Israel)
Session Chair: João Mano		
10:40 – 11:10	Plasma-Based Synthesis of Silver Nanoparticles Embedded in Dielectric Matrices for Control of Charge Injection and Transport Phenomena	Kremena Makasheva (France)
11:10 – 11:40	Exploring Electrohydrodynamics Based Functional Nanofibers as Multi-Dimensional Nano-Biointerfaces	Menglin Chen (Denmark)
11:40 – 12:10	Exploring Ex Vivo Challenges and Applications of Microrobots	Islam Khalil (Netherlands)
12:10 – 12:40	RNA Detection Using Nanopores: From Isoform Analysis to Disease Diagnostics	Ulrich F. Keyser (UK)

Tuesday, 30 July 2024, Conference Hall, 4F

Time	Topic	Speaker
Session Chair: Dror Seliktar		
14:00 – 14:30	Nanomechanical and Microwave Sensors with Single-Particle Resolution for Environmental and Biologic Applications	Selim Hanay (Turkey)
14:30 – 15:00	Sphygmopalpation Using E-Skin Tactile Sensory Feedback to Reveal Fundamental TCM Pulse Patterns	Wen-Jung Li (Hong Kong SAR)
15:00 – 15:30	Interplay of Adhesion and Friction: Foundations and Applications in Nanomanufacturing	Iakov A. Lyashenko (Germany)
15:30 – 16:00	Functional Imaging of Nanodomains in Cardiomyocytes	Julia Gorelik (UK)
Session Chair: Tom Luo		
16:20 – 16:50	Piezoresistive MEMS Devices with Very Large Dynamic Range	Vladimir Stavrov (Bulgaria)
16:50 – 17:20	Finding Bacteria: The Bad, The Good, and The Better	MinJun Kim (USA)
17:20 – 17:50	All About Surface - From Neuromorphic System to Point of Care Diagnostic Tools	Roy Vellaisamy (UK) (Hong Kong SAR)
17:50 – 18:20	Monolithic Fabrication and Surface Metalization of Single-Crystal Suspended Sub-Micron Si Nanowires with 3D MEMS Architectures	B. Erdem Alaca (Turkey)

Thursday, 1 August 2024, Conference Hall, 4F

Time	Topic	Speaker
Session Chair: Mingdong Dong		
14:00 – 14:15	Journal Information of RSC Applied Interfaces	Federico Rosei (Italy)
14:15 – 14:30	Journal Information of Advanced Engineering Materials & Wiley	Tom Luo (Hong Kong SAR)
14:30 – 14:45	Introduction of Wiley Materials Journals	Shaoying Cui (China)
14:45 – 15:00	Journal Information of Materials Today Bio	João Mano (Portugal)
15:00 – 15:30	Oxygen Sensing and Transport for Vascular Tissue Engineering	Ronald X. Xu (China)
15:30 – 16:00	Precision Optomechatronic Systems for Large-Area Scanning Probe Lithography and Laser Microprocessing	Zhen Zhang (China)
Session Chair: Julia Gorelik		
16:20 – 16:50	Magnetic Nanoparticles in the Development of Tissue Engineering Constructs Using Bottom-up and Top-down Approaches	João Mano (Portugal)
16:50 – 17:20	Nano-Structure of Collagen Materials for Biomedical Devices	Richard Haverkamp (New Zealand)

17:20 – 17:50	Direct Growth of Heterostructure Synthesized by Chemical Vapor Deposition for Highly Efficient Self-Powered Photodetector	Tom Luo (Hong Kong SAR)
17:50 – 18:20	Synthesis and Applications of (sometimes exotic) 2D Materials	Federico Rosei (Italy)