

Schedule of the Keynote Reports

Tuesday, 29 July 2025, Conference Hall, 1F

Time	Topic	Speaker
Session Chair: Ricardo Garcia		
08:50 – 09:20	The Triboelectric Nanogenerator - A Disruptive Energy Technology and Sensing Technology	Zhonglin Wang
09:20 – 09:50	Applications of Discontinuous Metal Thin Films to Electronics Packaging	James Morris
09:50 – 10:20	Nanoplastics and PFAS: Unveiling the Pathway for Contaminant Transport and Toxicity in Aquatic Systems	Istvan Szilagyi
10:20 – 10:50	Force Mediated Reactivity and Emergence in Low Dimensional Molecular Systems	Harald Fuchs
Session Chair: Federico Rosei		
11:10 – 11:40	On-Surface Precise Synthesis of Carbon-Based Functional Molecules and Polymers	Lifeng Chi
11:40 – 12:10	Mechanics of Adhesive Viscoelastic Contacts	Valentin Popov
12:10 – 12:40	Reversible Assembly of Iron Oxide Nanoparticles on Gold Nanorods for Magnetic Alignment and Plasmonic Control	Joseph Tracy
Session Chair: Tomaso Zambelli		
14:30 – 15:00	In-Operando Microscopy and Spectroscopy Measurements on 2D Materials and Devices	Yong P. Chen
15:00 – 15:30	Solid-Water Interfaces at the Molecular Scale	Ricardo Garcia
15:30 – 16:00	Magnetic Miniature Robots for Endoluminal Interventions: From Individual to Microswarms	Li Zhang

16:00 – 16:30	How Can Microfluidic Tools Help during the Self-Assembly and Engineering of Advanced Functional Materials and Crystals	Josep Puigmarti-Luis
Session Chair: Tom Luo		
16:50 – 17:20	FluidFM for Electrochemical Micro Additive Manufacturing of Metals and Polymers	Tomaso Zambelli
17:20 – 17:50	Robotic Endovascular Intervention Utilizing Magnetic Navigation System and Magnetic Microrobot	Gunhee Jang
17:50 – 18:20	SpiCy-MiNT Robotic Technology for Micro and Nano Biomedical Applications	Kostadin Kostadinov
18:20 – 18:50	Expanding the Prospects of Development and Production of Modern Batteries through Laser Technologies	Wilhelm Pfleging

Schedule of the Keynote Reports

Thursday, 31 July 2025, Conference Hall, 1F

Time	Topic	Speaker
Session Chair: Mingdong Dong		
14:30 – 14:45	IOP Publishing NANO and IOP Fellow	Chaoyu Wu
14:45 – 15:00	Light: Science & Applications, eLight, Light: Advanced Manufacturing: Top Tier Journals in Optics	Chenzi Guo
15:00 – 15:30	Materials for the Future	Konstantin Novoselov
15:30 – 16:00	Transforming Antigenic Portable Technologies into Highly Dependable Screening Devices	Luisa Torsi
16:00 – 16:30	pH-Sensitive Clay Nanomaterials for Enhanced Solid Tumor Immunotherapy	Zhiping Xu
Session Chair: Luisa Torsi		
16:50 – 17:20	Distinct Binding Mechanism of SARS-CoV-2 Spike Variants Leads to Enhanced Infectivity and Viral Transmission	Peter Hinterdorfer
17:20 – 17:50	Construction of Functional Artificial Cells	Xiaojun Han
17:50 – 18:20	Magnetic Micro- and Nanorobots for Biomedical Applications	Salvador Pané Vidal