

Schedule of the Keynote Reports

Tuesday, 28 October 2014, International Conference Hall

Humanities and Social Sciences Building

Time	Topic	Speaker
Session Chair: Sergej Fatikow		
08:40 – 09:20	Manipulation of a Bio Nano Complex System for Personalized Medicine	Chih-Ming Ho
09:20 – 10:00	Biomedical Imaging Systems for Early Detection of Disease	Dae-Gab Gweon
Session Chair: Hong-Bo Sun		
10:20 – 11:00	Row-column Addressed Capacitive Micromachined Ultrasonic Imaging System	John Yeow
11:00 – 11:40	Biologically Inspired Hybrid Robotic Systems for Nanomedicine	MinJun Kim
11:40 – 12:20	Ultimate Ring Resonator for Atomic Force Microscopy: A Possible Way for Biosensing	Lionel Buchailot
12:20 – 13:00	Multiparametric Imaging of Nanomaterials by Dynamic Quantitative Nanomechanical Mapping	Mingdong Dong
Session Chair: Evangelos S. Eleftheriou		
14:00 – 14:40	Bessel Beam Machining and Light-field Metrology	Chih-kung Lee
14:40 – 15:20	Non-Vector Space Control for Nano Manipulations	Ning Xi
15:20 – 16:00	Nano-Measurement by Transient Spectroscopies: Open the Blackbox of Optoelectronic Dynamics	Hong-Bo Sun

Session Chair: Pei-Kuen Wei		
16:20 – 17:00	Nanostructure Conducting Polymer for Energy-Related Applications	Chih Wei Chu
17:00 – 17:40	Key Enabling Technologies for Scanning Probe Microscopy	Evangelos S. Eleftheriou
17:40 – 18:20	Nanopositioning and Nanomeasuring Machine for Measurement, Manufacturing and Manipulation on the Nanoscale	Eberhard Manske

Wednesday, 29 October 2014, Room B106 Auditorium (1st floor)
Multidisciplinary Science and Technology Research Building

Time	Topic	Speaker
Topical Workshop: "Emerging 2D Materials for Nanotechnology"		
Workshop Chair: Peter Bøggild		
10:20 – 11:00	The Atomic Structure of Low-dimensional Materials Determined from In-situ Low-voltage Aberration-corrected TEM Experiments	Ute Kaiser
11:00 – 11:40	Defects in Two-dimensional Materials	Arkady Krasheninnikov
11:40 – 12:20	Properties and Application of Graphene Based Materials	Rahul Raveendran Nair
12:20 – 13:00	Epitaxial Graphene on SiC: Gateless Patterning, Efficient Switches and a Concept for Digital Circuits	Heiko Weber
Session Chair: Ute Kaiser		
16:20 – 17:00	2D or not 2D: Electrical Continuity of Graphene and How to Measure It	Peter Bøggild
17:00 – 17:40	CMOS MEMS: A Key Technology Towards the “More Than Moore” Era	Weileun Fang
17:40 – 18:20	Miniaturized Systems for Pharmaceutical and Medical Applications	Andreas Dietzel

Thursday, 30 October 2014, Room B106 Auditorium (1st floor)

Multidisciplinary Science and Technology Research Building

Time	Topic	Speaker
Session Chair: Chih-Ming Ho		
10:20 – 11:00	Metrology for 3D Interconnect Processes	Yi-sha Ku
11:00 – 11:40	Nanometrology Using Scanning Probe Microscopy Methods	Teodor Pawel Gotszalk
11:40 – 12:20	Analysis and Design of the Precision Compliant Mechanisms	Xianmin Zhang
12:20 – 13:00	Micro/nanorobotic Handling and Characterization of Microscale Biological Objects	Pasi Kallio
Session Chair: Pasi Kallio		
16:20 – 17:00	Fabrication and Applications of Nanostructures for Highly Efficient Light Extraction	Pei-Kuen Wei