

3M-NANO 2012: Keynote Reports

Wednesday, 29 August 2012

Location: Jianguo Hotel, 2F

Time	Topic	Speaker
Session Chair: Sergej Fatikow (Germany)		
08:30 – 09:05	Manufacturing of Nanostructures and Their Optical Applications	Weiguo Liu (China)
09:05 – 09:40	Integrated Robotic System on a Microfluidic Chip for Evolution of Biomedicine	Fumihito Arai (Japan)
09:40 – 10:15	Nanoscale Manipulation, Assembly, and Integration by Optically Induced Electrokinetics	Wen Jung Li (Hong Kong)
10:15 – 10:50	Modeling and Control Issues in Bio-Nanorobotics	Antoine Ferreira (France)
Session Chair: Stéphane Regnier (France)		
11:10 – 11:45	3D Photonic Metamaterials and Transformation Optics	Martin Wegener (Germany)
11:45 – 12:20	Fabrication of Nano-Optics	Fengzhou Fang (China)
12:20 – 12:55	Nanophotonics with Nanowires and Plasmons	Cun-Zheng Ning (USA)
Session Chair: Fengzhou Fang (China)		
14:45 – 15:20	New Catheter Operating Systems with Force Feedback for Medical Applications	Shuxiang Guo (Japan)
15:20 – 15:55	Choosing, Placing, and Immobilizing Nanoscopic Objects On-Chip with Nanoscale Precision by Flow Control	Benjamin Shapiro (USA)
15:55 – 16:30	Nanomanufacturing: Manipulation and Characterization of Nanomaterials	Yu Sun (Canada)
16:30 – 17:05	Numerical Simulation of Ultrasonic Stick-Slip Actuators Based on the Method of Reduction of Dimensionality	Valentin Popov (Germany)

Session Chair: Shuxiang Guo (Japan)

17:25 – 18:00	Quantum Dots Optoelectronics Nanostamping, Near-Field Imaging and Early Cancer Detection	John Zhang (USA)
18:00 – 18:35	High Fidelity Haptic Feedback for Micro/Nanomanipulation	Stéphane Regnier (France)
18:35 – 19:10	Miniaturized Biomedical Instrumentation	John Yeow (Canada)