THURSDAY 23 MAY 2013
1.00-8.00 Registration and Reception (Lobby, McKenna Hall); reception starts from 5.00 pm

FRIDAY 24 MAY 2013
8.00 onwards Registration opens (Lobby, McKenna Hall)
8.45-9.00 Opening Remarks (H-C Chang) (DeBartolo, Rm 102)
9.00-9.30 Invited: T-U Lee, Nanofluidics For Gene Transfection and DNA Separation (DeBartolo, Rm 102) Keynote 2: V Kurz, G Temp, Single Cell Transfection with Single Molecule Precision Using a Synthetic Nanopore (DeBartolo, Rm 102)
9.30-10.10 Break (Coffee and other refreshments available throughout the day in the McKenna Hall Lobby)

Session 2: Nanochannels & Nanopores (DeBartolo, Rm 126)
Session 3: Cell Manipulations 3 (DeBartolo, Rm 129)
Session 4: Fundamentals (DeBartolo, Rm 121)

10.10-10.30 Invited 2: AM Streets, H Zhao, X Yang, J Teng, Y Huang, Label-Free Mass Spectrometry and Transcripotope Analysis of Single Cells
Invited 3: JC Luce, Advances in a Nanowell-Based Integrated Single-Cell Analytical Technology for Ex Vivo Characterization of Clinical Samples

10.30-12.30 Oral Contributions

12.30-2.00 Lunch (Lower Level, McKenna Hall)
1.00-2.10 Keynote 3: LY Ye, Jr, Friend, Microfluidic Rebiolization Platform for Pulmonary Drug and Gene Delivery (DeBartolo, Rm 102)
1.30-1.40 Keynote 4: OD Velev, HI Rao, Basic Circuits and Devices Combining Electronic, Microfluidic and Biomimetic Structures (DeBartolo, Rm 102)
1.30-3.10 Break (Coffee and other refreshments available throughout the day in the McKenna Hall Lobby)

Session 4: Sensing & Biosensing 1 (DeBartolo, Rm 126)
Session 5: Cell Manipulation 2 (DeBartolo, Rm 129)
Session 6: Electrokinetics (DeBartolo, Rm 131)

1.40-3.30 Invited 4: UD Dimitril, Micro- and Nano-Scale Technologies at the Convergence of Engineering and Biology for Applications in Medicine
Invited 5: HHU, Microtechnologies for High-throughput High-Content Developmental Biology and Neuroscience
Invited 6: Z Zheng, B Jing, Z Zhu, Aggregation of Model Amyloid Insulin Protein in Crowding Environments and Under AC Electric Fields

3.30-5.30 Oral Contributions

5.00-6.00 Reception and Poster Session (Lobby, McKenna Hall)

SATURDAY 25 MAY 2013
8.00 onwards Registration opens (Lobby, McKenna Hall)
8.30-9.00 Keynote 5: H Liu, X Li, Y Yang, Y Lu, RM Crooks, Microelectrochemical Paper Diagnostic Devices (DeBartolo, Rm 102)
9.30-10.00 Oral Contributions

Session 6: IMM Contents, SP Braugher, LR Edmon, C Ma, PW Bohm, Nanofluidics Embedded Reactors for Enhanced Chemical Transformations (NanoPERfECT) (DeBartolo, Rm 102)

10.00-10.10 Break (Coffee and other refreshments available throughout the day in the McKenna Hall Lobby)

Session 7: Sensing & Biosensing 2 (DeBartolo, Rm 126)
Session 8: Fabrication, Methods & Surfaces (DeBartolo, Rm 129)

10.10-10.30 Invited 7: A Ang, VN Seo, C Jamora, JC del Alamo, S Varghese, Intracellular Forces in Cancer Metastasis
Invited 8: JT Cabral, Engineering Complex Fluids by Microfluidic Processing

10.30-12.30 Oral Contributions

12.30-2.00 Lunch (Lower Level, McKenna Hall)
1.00-2.30 Keynote 7: DA Weitz, Drop-Based Microfluidics for Single Cell Analysis (DeBartolo, Rm 102)
1.30-1.40 Keynote 8: S Takayama, Micro-Nanofluidic Tools to Model and Analyze the Body (DeBartolo, Rm 102)
1.30-3.10 Break (Coffee and other refreshments available throughout the day in the McKenna Hall Lobby)

Session 8: Fabrication, Methods & Surfaces (DeBartolo, Rm 129)
Session 9: Special Memorial Symposium Session on Electrowetting in Honor of Professor Kwan Hyoung Kang (1968-2012) (DeBartolo, Rm 131)
Session 10: Multi-phase Microfluidics & Droplets (DeBartolo, Rm 126)
Session 11: Magnetofluidics, Acoustofluidic, Ferrofluidic and Thermal Flows (DeBartolo, Rm 129)
Session 12: Special Session on Dielectrophoresis 1 (DeBartolo, Rm 131)

1.40-3.30 Invited 10: B Zhang, T Pratil, CN Baroud, Droplet Microfluidics Driven by Gradients of Confinement
Invited 11: JH Huang, Acoustic Tweezers: Manipulating Particles, Cells, and Organs Using Standing Surface Acoustic Waves (SSAW)

3.30-5.30 Oral Contributions

5.30-7.30 Conference Banquet (Lower Level, McKenna Hall)

SUNDAY 26 MAY 2013
8.00 onwards Registration opens (Lobby, McKenna Hall)
9.00-9.30 Keynote 9: B Bashir, Biomimetic Micro and Nanotechnology: From Lab-on-Chip to Building Systems with Cells (DeBartolo, Rm 102)
9.30-10.00 Keynote 10: H-C Chang, Molecular Sensing with Ion-Selective Membranes and Nanopores (DeBartolo, Rm 102)

10.00-10.10 Break (Coffee and other refreshments available throughout the day in the McKenna Hall Lobby)

Session 13: Optofluidics, Photoacoustics, Acoustofluidics & Organic Electronics (DeBartolo, Rm 126)
Session 14: Special Session on Dielectrophoresis 2 (DeBartolo, Rm 129)
Session 15: Biomicrofluidics (DeBartolo, Rm 131)

Invited 13: J Xu, X Xuan, Viscoelastic Effects on Dielectrophoretic Focusing and Trapping of Particles in a Constriction Microchannel

10.30-12.00 Oral Contributions

12.30-1.00 Closing Ceremony (H-C Chang) (DeBartolo, Rm 102)