

THURSDAY 23 MAY 2013			
3:00-8:00	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	Keynote 1: LJ Lee . Nanofluidics For Gene Transfection and DNA Separation (Session Chair: H-C Chang) (DeBartolo, Rm 102)		
9:30-10:00	Keynote 2: V Kurz, E Nelson, G Timp . Single Cell Transfection with Single Molecule Precision Using a Synthetic Nanopore (Session Chair: H-C Chang) (DeBartolo, Rm 102)		
10:00-10:10	Break (Coffee and other refreshments available throughout the day in the McKenna Hall Lobby)		
10:10-10:30	Session 1: Nanochannels & Nanopores (Session Chair: X Guan) (DeBartolo, Rm 126) <i>Invited 1:</i> AM Streets Liang Zhao, X Zhang, F Tang, Y Huang . Label-free Microscopic Phenotyping and Transcriptome Analysis of Single Cells	Session 2: Cell Manipulation 1 (Session Chair: D Wood) (DeBartolo, Rm 129) <i>Invited 2:</i> JC Love . Advances in a Nanowell-Based Integrated Single-Cell Analytical Technology for Ex Vivo Characterization of Clinical Samples HW Hou , MP Vera, BD Levy, RM Baron, J Han. A Novel Microfluidic "Cell-Based" Blood Dialysis Platform for Septic Murine Model	Session 3: Fundamentals (Session Chair: DI Kopelevich) (DeBartolo, Rm 131) <i>Invited 3:</i> AI Toldy, AZM Badruddoza, L Zheng, RAL Leon, TA Hatton, SA Khan . Pharmaceutical Crystallization and Drug Formulation in Microfluidic Emulsions F Mugele , B Eral, D Mampalli, JM Oh, M Duits, D van den Ende, D Legendre. Shaken Not Stirred - How Electrowetting-Driven Drop Oscillations Prevent the Formation of Coffee Stains
10:30-10:45	SB King , KD Dorfman. Measuring the Effect of Order on DNA Electrophoretic Separation in Colloidal Crystals K Gao , X Huang, L Li, L Chang, X Wang, G Marcucci, LJ Lee. Design of a Microchannel-Nanochannel-Microchannel Array Based Nanoelectroporation System for Precise siRNA Delivery in Acute Myeloid Leukemia Cells	KZ Kerwin , HY Low, Y Zhang. Shape-Base Separation, Sorting and Enrichment of Bacteria in Deterministic Lateral Displacement Devices R Nosrati , K Zeidan, M Vollmer, L Emer, MC San Gabriel, A Zini, D Sintion. Viable Sperm Separation on-a-Chip with Milliliter-Scale Sample Capacity	DI Kopelevich . Transport Across Fluid Interfaces and Lipid Membranes: Role of Interfacial Fluctuations DR Tree , Y Wang, KD Dorfman. Mobility of DNA in Nanochannels AR Rezk , O Manor, JR Friend, LY Eo. Acoustowetting: Film Spreading, Fingering Instabilities and Soliton-Like Wave Propagation
10:45-11:00	G Wang , L Wang, Y Han, S Zhou, X Guan . Nanopore Detection of Biological Warfare Agents	AJ Laki , K Ivan, P Furfes, P Civera. Integrated Microcapillary System for Microfluidic Parasite Analysis N Ghoshian , SK Gökçe, SX Guo, WN Everett, A Ben-Yakar. An Automated Microfluidic Multiplexer for Fast Delivery of <i>C. elegans</i> Populations from Multiwells	AA Nepomnyashchy , VA Volpert. Dynamics of a Pore in a Lipid Membrane A Cavalli , ML Blow, JM Yeomans. Modelling Liquid Interaction with Slanted Microposts for Microfluidics Applications EA Demekhin , VS Shelistov, VA Kiriy. Ion Transport near Hydrophobic Ion-Selective Surface affected by Coupled Electrokinetic and Thermal Convection
11:00-11:15	Z Cao , L Yobas. Self-Enclosed Cylindrical Glass Nanocapillary Array for DNA Separation	DK Wood , L Mahadevan, JM Higgins, SN Bhatia. A Microfluidic Model of Sickle Cell Vaso-Occlusion T Scherr , WT Monroe, K Nandakumar. Zebrafish Sperm Cell Activation in a Micromixer	WF Reinhart , DR Tree, KD Dorfman. Entropic Depletion of DNA in Triangular Nanochannels
11:15-11:30	S Liu , Y Wang, Y Yan, H-C Chang. Submicron Nanocolloid Aggregation and Plasmonics in a Nano-Capillary C Gupta , W-C Liao, D Gallego-Perez, CE Castro, LJ Lee. DNA Dynamics and Separation in Short Polymeric Nanochannels using Pulsed Electric Field	S Ryu , MJ Lang, P Matsudaira. Microfluidic Measurement of the Tension Development Rate of <i>Vorticella</i>	
11:30-11:45	JDP Thomas , DW Olson, MN Joswiak, S-G Park, KD Dorfman. Ratchet Nanofiltration of DNA W-C Liao , X Zhao, C Gupta, D Gallego-Perez, LJ Lee. Study of Pore Formation and Delivery Mechanism in Microchannel and Nanochannel Electroporations		
11:45-12:00			
12:00-12:15			
12:00-12:30	Lunch (Lower Level, McKenna Hall)		
12:30-2:00	Keynote 3: LY Eyo , JR Friend. Microfluidic Nebulization Platform for Pulmonary Drug and Gene Delivery (Session Chair: LJ Lee) (DeBartolo, Rm 102)		
2:00-2:30	Keynote 4: OD Velev , H-J Koo. Ionic Circuits and Devices Combining Electronic, Microfluidic and Biomimetic Structures (Session Chair: LJ Lee) (DeBartolo, Rm 102)		
2:30-3:00	Break (Coffee and other refreshments available throughout the day in the McKenna Hall Lobby)		
3:00-3:10			
3:10-3:30	Session 4: Sensing & Biosensing 1 (Session Chair: XI Li) (DeBartolo, Rm 126) <i>Invited 4:</i> U Demird . Micro- and Nano-Scale Technologies at the Convergence of Engineering and Biology for Applications in Medicine R Mohan , C Sanpaktakere, E Sevgen, AV Desai, CM Schroeder, PIA Kenis. Antibiotic Susceptibility Testing of Polymicrobial Communities using a Multiplexed Microfluidic Platform	Session 5: Cell Manipulation 2 (Session Chair: AM Ardekani) (DeBartolo, Rm 129) <i>Invited 5:</i> H Lu . Microtechnologies for High-throughput High-Content Developmental Biology and Neurogenetics SB Wang , SH Yazdi, AM Ardekani . Motion of Bacteria in a Vortical Flow	Session 6: Electrokinetics (Session Chair: G Yossifon) (DeBartolo, Rm 131) <i>Invited 6:</i> Z Zheng, B Jing, E Zhu . Aggregation of Model Amyloid Insulin Protein in Crowding Environments and Under AC-Electric Fields F Ren , S Huang, S Wang . Hybrid-Field Microfluidics Enhanced Polyplex Synthesis and Delivery Y Green , G Yossifon . Dynamical Trapping of Colloids at the Stagnation Points of Electro-Osmotic Vortices of the Second Kind
3:30-3:45	Z Slouka , S Senapati, H-C Chang. Ion Exchange Particle-Based Microfluidic DNA/RNA Diagnostic Platform for Point-of-Care Applications P Zuo , DC Dominguez, S Das, T Boland, XJ Li, A PDMS/Paper Hybrid Microfluidic Device Integrated with Aptamer-Functionalized Graphene Oxide Nano-Biosensors for One-Step Multiplexed Pathogen Detection	Y-L Chen , W Chien. Modeling Inertial and Deformability-Based Separation of Cells Z Long , N Nugent, A Javer, P Gicuta, B Schlai, M. Cosentino Lagomarsino, KD Dorfman. Microfluidic Chemostat for Measuring Single Cell Dynamics in Bacteria	E Choi , K Kwon, D Kim, J Park . Nanoparticle Based Ion-Selective Membrane within Microchannel M Li , S Li, W Li, W Wen, G Alici. Dielectrophoretic Manipulation and Separation of Microparticles in a Hurdle-Integrated Waved Microchannel
3:45-4:00	F Grunthaler , S Sherrit , MC Lee, A Aubrey, J Hasenoehrl. Astroblebiller – A Microfluidic Flight Instrument for Detecting and Extracting Amino Acids J Sang , W Wang . Rolling Circle Amplification on Nanoparticles: A High Sensitive Nucleic Acid Detection Approach with the Naked Eyes	G Tomaiuolo , L Lanotte, A Cassinesec, S Guido. Microconfined Flow-Based Imaging Methods to Study Red Blood Cell Deformability <i>In Vitro</i> B Lin , T Inoue, A Levchenko. Investigation of Individual and Collective Responses During the Directed Migration of Breast Cancer Cells Using Microfluidics	GR Willmott . Advances in Tunable Resistive Pulse Sensing H-P Chen , C-C Tsai, H-M Lee, T-C Chang, S-C Wang , H-C Chang. Selective Dynamic Concentration of Peptides at Poles of Cation-Selective Nanoporous Granules J Schiffbauer , S Park, G Yossifon. Transient Response of the Micro-Nanochannel Interface: Effects of Fluid-Flow, Space Charge, and Non-Ideal Selectivity
4:00-4:15	J Dai , Y Gu, M Zeng, P Song, AC Fisher. Au Nanowire Based Microfluidic Flow Sensor for Hydrogen Peroxide NJ Alves , N Mustafaoglu, ZB Bilgicer. Site-Specific Antibody Biotinylation to the Nucleotide Binding Site with Applications in Oriented Antibody Immobilization	AS Nezhad , M Packirisamy, R Bhat, A Geitmann. Buckling Approach on Pollen Tube for Measuring Growth Force MJ Kennedy , H D Ladouceur, CA Batt . Diffusional Mixing and Micro-Cytometry	AM Boymelgreen , G Yossifon, T Miloh. Stability of Metalodielectric Janus Spheres in AC Electric Fields
4:15-4:30			
4:30-4:45			
4:45-5:00			
5:00-5:15			
5:15-5:30			
6:00-8:00	Reception and Poster Session (Lobby, McKenna Hall)		
SATURDAY 25 MAY 2013			
8:00 onwards	Registration opens (Lobby, McKenna Hall)		
9:00-9:30	Keynote 5: H Liu, X Li, Y Xiang, Y Lu, RM Crooks . Microelectrochemical Paper Diagnostic Devices (Session Chair: OD Velev) (DeBartolo, Rm 102)		
9:30-10:00	Keynote 6: NM Contento, SP Branagan, LR Gibson II, C Ma, PW Bohn . NanoPlatform Embedded Reactions for Enhanced Chemical Transformations (NanoPERFECT) (Session Chair: OD Velev) (DeBartolo, Rm 102)		
10:00-10:10	Break (Coffee and other refreshments available throughout the day in the McKenna Hall Lobby)		
10:10-10:30	Session 7: Sensing & Biosensing 2 (Session Chair: ED Goluch) (DeBartolo, Rm 126) <i>Invited 7:</i> A Aung, YN Seo, C Jamora, Jc del Alamo, S Varghese . Intracellular Forces in Cancer Metastasis	Session 8: Fabrication, Methods & Surfaces (Session Chair: AL Elias) (DeBartolo, Rm 129) <i>Invited 8:</i> JT Cabral , Engineering Complex fluids by Microfluidic Processing A Vitale , M Quaglio, M Cocuzza, S Marasso, CF Pirri, R Bongiovanni. Photolithographic Approach to Fabricate PFPE Microfluidic Devices	Session 9: Special Memorial Symposium Session on Electrowetting in Honor of Professor Kwan Hyoung Kang (1968-2012) (Session Chair: F Mugele) (DeBartolo, Rm 131) <i>Invited 9:</i> SJ Kim . Electro-Fluidic Control from a Droplet to an Ion: The Remembrance of Professor Kwan Hyoung Kang M Hagedorn , J Heikenfeld. Electrofluidic Imaging Films for ePaper Displays
10:30-10:45	B Zhou , L Wang, S Li, X Wang, S Hui, W Wen. Universal Logic Gates Via Liquid-Electronic Hybrid Divider F Lamberti , A Zambon, S Bersani, S Agnoli, G Granozzi, S Salmasso, M Giomo, N Elvassore . Shaping ITO-Based Microfluidic Chips: A Biosensing Application	K Abi-Samra , JR Han, YK Cho. Electrochemical Velocimetry in Paper-Based Microfluidics S Azimi , ZY Dang, K Ansari, MBH Breese. A New Process for Fabricating Three-Dimensional Micro/Nano Channels	YK Suh , KH Baek. Field-Effect Control of EHD Flows R de Ruiter , AM Pit, MHG Duits, HTM van den Ende, F Mugele. Electro-wetting Controlled Drop Manipulation in Microchannels
10:45-11:00			
11:00-11:15	G Sun , Y Yan, H-C Chang. Nanoporous Silica Membrane Based Ion Current Oscillator for Multi-Target Biosensing J Heikenfeld , L Hou, D Rose . Building Enabling Technologies for Sensing Biomarkers in Sweat: Flexible Electronics/Microfluidics and Sweat Simulators	J Berthier , K Brakke, S Mermoz, C Frétygn, L Di Giocci. Investigation of the Capillary Self-Alignment of Complex Geometrical Chips A Zeberoff , B Nearingburg, AL Elias . A Laser-Responsive Microactuator Based on Gold Nanoparticle/Wax Composites	H Lee , D Choi, DJ Im, IS Kang, KH Kang. Conventional Pipetting-Induced Spontaneous Electrical Charging of Droplets AM Schoeller , DN Josephides, S Sajjadi, P Mesquida. Charge of Water Droplets in Silicone Oil
11:15-11:30	S Senapati , Z Slouka, S Shah, H-C Chang. Designing a Low-Cost Portable Biosensor with Ion-Selective Nanoporous Materials	JYH Kim , HS Kwak, SJ Sim. Phototaxis-Based Screening Strategy in Microfluidics to Improve Photosynthetic Efficiency of Microalgae	N Chamakos , AG Papanthasiou . Do We Really Need Young's Angle Boundary Condition in Electrowetting Simulation?
11:30-11:45			
11:45-12:00			

12.00-12.15	TA Webster, H. Sismaet, ED Goluch . Amperometric Detection of Pyocyanin in Nanoscale Constrictions	B Nearingburg , AL Elias. Microfluidic Fuel Cells Fabricated Through <i>In Situ</i> Laminar Flow Maskless Lithography	A Russell , J Heikenfeld. Micro-Electrofluidic Energy Harvesting: Breakthroughs in Both Materials and Device Structure
12.00-12.30	B Davaji , JH Han, CH Lee. Microfabricated Calorimeter for Biosensing and Versatile Thermal Analyses	Q Hamid , C Wang, Y Zhao, J Snyder, W Sun. Surface Treatment of SU-8 for the Development of Biological Microfluidics	JM Oh , D Legendre, J Harting, F Mugele. Mixing Efficiency of Non-chaotic Drop Oscillation on the Basis of Finite Time Lyapunov Exponent
12.30-2.00	Lunch (Lower Level, McKenna Hall)		
2.00-2.30	Keynote 7: DA Weitz , Drop-Based Microfluidics for Single Cell Analysis (Session Chair: PW Bohn) (DeBartolo, Rm 102)		
2.30-3.00	Keynote 8: S Takayama . Micro- Nanofluidic Tools to Model and Analyze the Body (Session Chair: PW Bohn) (DeBartolo, Rm 102)		
3.00-3.10	Break (Coffee and other refreshments available throughout the day in the McKenna Hall Lobby)		
	Session 10: Multiphase Microfluidics & Droplets (Session Chair: SA Vanapalli) (DeBartolo, Rm 126)	Session 11: Magnetofluidic, Acoustofluidic, and Thermal Flows (Session Chair: TN Wong) (DeBartolo, Rm 129)	Session 12: Special Session on Dielectrophoresis 1 (Session Chair: CV Brown) (DeBartolo, Rm 131)
3.10-3.30	Invited 10: R Dangla, E Fradet, CN Baroud . Droplet Microfluidics Driven by Gradients of Confinement.	Invited 11: TJ Huang . Acoustic Tweezers: Manipulating Particles, Cells, and Organisms Using Standing Surface Acoustic Waves (SSAW)	Invited 12: ZR Gagnon . Maxwell-Wagner Polarization at Liquid-Liquid Interfaces
3.30-3.45	C Priest , SF Hashmi, J Zhou, R Sedev, J Ralston, K Mawatari, T Kitamori. Influence of Molecular and Particulate Species on Micro-Solvent Extraction	AR Rezk , A Qi, JR Friend, WH Li, LY Yeo. Uniform Mixing in Paper-Based Microfluidic Systems Using MHz Acoustic Waves	Y Yan, D Guo , SZ Wen. Microdroplet Coalescence Under the Effect of Dielectrophoresis in a Convergent Microchannel
3.45-4.00	C Bathany , Y-K Cho, S. Takayama. Towards Dried Biomicrofluidic Apparatus Using Aqueous Two-Phase Systems	D Taller , DB Go, and H-C Chang. Patterning of Micro and Nanodroplets by Surface Acoustic Waves	G McHale, CV Brown , MI Newton, N Sampara, GG Wells. Spreading and Super Spreading of Droplets Driven by Liquid Dielectrophoresis (L-DEP)
4.00-4.15	M Sun, SS Bithi, SA Vanapalli . Simple Microfluidic Drop Dilution Platforms	J-S Kwon , ST Woreley. Theoretical and Experimental Characterization of an Electrothermal Microfluidic Flow	S Patel, A Kale, X Xuan . Joule Heating Effects in Reservoir-based Dielectrophoresis (rDEP)
4.15-4.30	S Ma , M Natoli, X Liu, MP Neubauer, FM Watt, A Fery, WTS Huck. Monodisperse Collagen/Gelatin Beads as Model 3D Cell Culture Microenvironments	P Yi , K Khoshmanesh, AF Chirimes, JL Campbell, K Ghorbani, S Nahavandi, G Rosengaten, K Kalantar-zadeh. Thermal Characterization of Nanofluidics Using Infrared Camera	A Ghosh, S Basuray , K Gangopadhyay, S Gangopadhyay. Surface Dielectrophoresis for DNA fractionation
4.30-4.45	E Amstad , DA Weitz. The Microfluidic Nebulator: Production of Sub-30 nm Particles Through Spray Drying	O Yassine , A Zaher, E Li, ST Thoroddsen, J. Kosel. Magnetically Controlled Droplets of Thermosensitive Microgel as Advanced Agent Carriers	H-L. Chen, S-W. Leung, H-Y Wang, H-H Wei . Trapping Quantum Dots by Giant Induced Dipole Moments
4.45-5.00	A Sahu, S Pushpavanam . Biphasic Liquid Flows and Mass Transfer Characterization in Y Junction Microstructured Contactors	O Yassine , CP Goneraterne , A Ali, J Merzaban, J Kosela. A Magnetic Microfluidic Chip For Purification, Trapping and Selective Isolation Of Cells	NR Wood, AI Wolsiefer, KE Heacock, RW Cohn, SJ Williams . Dielectrophoretic Capture of Nanoparticles with a Self-Assembled Nanoprobe
5.00-5.15	C Rascon , AO Parry, EAG Jamie, DGAL Aarts. Phase Transition of a Meniscus in a Capillary under the Influence of Gravity	JJ Wilbanks, GA Kiessling, Z Jian, C Chen, P Vedantam, TJ Tzeng, X Xuan . Diamagnetic Particle and Microbe Concentration Using Ferromicrofluidics	JJ Arcenegety, P Garcia-Sánchez , H Morgan, A Ramos. Electric-Field Induced Rotation and Orientation of Metal Nanowires.
5.15-5.30	M Danny Raj, R Raghunathan . Understanding Emergent Dynamics of Drops: A Simple Model Approach	Z Che , TN Wong , N-T Nguyen. Chaotic Mixing of Plug Flow in Meandering Microchannels	YI Lo, YY Lin, GY Chen, U Lei . Measurement of the Imaginary Clausius-Mossotti factor via Electrorotation
7.00-10.00	Conference Banquet (Lower Level, McKenna Hall)		
SUNDAY 26 MAY 2013			
8.00 onwards	Registration opens (Lobby, McKenna Hall)		
9.00-9.30	Keynote 9: R Bashir , Biomedical Micro and Nanotechnology: From Lab-on-Chip to Building Systems with Cells (Session Chair: S Takayama) (DeBartolo, Rm 102)		
9.30-10.00	Keynote 10: H-C Chang . Molecular Sensing with Ion-Selective Membranes and Nanopores (Session Chair: S Takayama) (DeBartolo, Rm 102)		
10.00-10.10	Break (Coffee and other refreshments available throughout the day in the McKenna Hall Lobby)		
	Session 13: Optofluidics, Plasmonics, Acoustofluidics & Organic Electronics (Session Chair: G Arya) (DeBartolo, Rm 126)	Session 14: Special Session on Dielectrophoresis 2 (Session Chair: AR Minerick) (DeBartolo, Rm 129)	Session 15: Biomicrofluidics (Session Chair: C Duan) (DeBartolo, Rm 131)
10.10-10.30	Invited 13: S-H Wu, K-L Lee, A Chiou, X Cheng, P-K Wei . Optofluidic Platforms for Real-time Monitoring of Living Cell Activities under External Stimulations	Invited 14: X Lu, X Xuan . Viscoelastic Effects on Dielectrophoretic Focusing and Trapping of Particles in a Constriction Microchannel	Invited 15: KD Dorfman , Z Chen, DW Olson. Design Principles for 2D Microolithographic Separation Media
10.30-10.45	G Gervinskas, G Seniutinas, L Rosa, E Brasselet, PR Stoddart, S Juodkazis . Plasmonic Platforms for Light-Field Enhancement and its Polarization Control for Micro-Fluidics	X Xing , L Yobas. DEP-Activated Cell Separation by Interdigitated 3-D Silicon Ring Electrodes	Z Chen , KD Dorfman. Origin of the Deflection Angle in the DNA Prism
10.45-11.00	A Pathak, S Basuray , CJ Mathai, D Menke, PV Cornish, K Gangopadhyay, S Gangopadhyay. Novel Plasmonic Grating Hotspots and Metal-DNA Interactions	K Khoshmanesh , D Wlodkowic, S-Y Tang, W Zhang, FJ Tovar-Lopez, A Mitchell, K Kalantar-zadeh. Dielectrophoresis of Bio-particles Using Curved Microelectrodes	MA Sawonik, CR Kothapalli . Quantification of Spatio-Temporal Diffusion of Biomolecular Gradients Within 3D Scaffolds Using a Microfluidic Device
11.00-11.15	Y Wang , S Senapati, P Stoddart, S Howard, H-C Chang. Nano-Cone Optical Fiber Array Sensors for MIRNA Profiling	V Gupta , I Jafferji, A Menachery, M Garza, VO Melnikova, DK Hasegawa, R Pethig, DW Davis. ApoStream™, a New Dielectrophoretic Device for Antibody Independent Isolation and Recovery of Viable Cancer Cells from Blood	M-E Brett , DE Stone, DT Eddington. Single Cell Chemotropism in a Microfluidic Device
11.15-11.30	A Mishra , K Clayton, R Thakur, S Williams, A Kumar, S Woreley. Rapid Optoelectrokinetic Manipulation of Nanoparticles	A Menachery , V Gupta, VO Melnikova, DK Hasegawa, DW Davis. ApoStream™ from Concept to Market	MA Alibakhshi, C Duan . Label-Free Electrical Detection of Enzymatic Reactions in Nanochannels
11.30-11.45	B Gao, CR Murthy, AR Tao, G Arya . Programmed Assembly of Polymer-Grafted Nanocubes into Plasmonic Nanojunctions	A Salmazadeh , ES Elvington, PC Roberts, EM Schmelz, RV Dalalos. Effects of Non-Toxic Sphingolipid Metabolites on Ovarian Cancer Cells' Dielectrophoretic Characteristics using a Microfluidic Platform	MS Friddin, NP Smithers, AG Lee, H Morgan, MRR de Planque . Electrophysiology of a Cell-Free Expressed Potassium Channel in Microdroplets Without Protein Purification
11.45-12.00	J-S Kwon , V Velasco, SJ Williams, ST Woreley. Rapid Electrokinetic Patterning Technique for Manipulation of Colloids and Microorganisms, and its Technical Advancement	KM Leonard, AR Minerick . Systematic Quantification of Dielectrophoretic Responses of ABO-Rh Erythrocytes	LR Gibson II , PW Bohn. Non-Aqueous Microchip Electrophoresis – Mass Spectrometry
12.00-12.15	JB Cumbergy , G Hayes, M Dickey, R Justice, C Tabor, J Heikenfeld. Manipulating the Geometry of Metallic Fluids for Agile Electronics	M Tsegaye, KT Liao, CF Chou, NS Swami . Coupling Dielectrophoresis with Concentration Polarization in Nanochannels	D Han, S Choi, DJ Hassett, AJ Steckl . Porous Electrospun Nanofiber Membrane Electrode for Enhancing Power Density of Micro-Sized Microbial Fuel Cell
12.00-12.30	S Puttaswamy, S Sengupta . Multifrequency Impedance Method for Detecting Viable Bacteria: Theory and Applications	H Zhao . The Dielectrophoretic Polarization of DNA Molecules under the Action of an Electric Field	SJ Sundermier, A Fraiwan , S Choi. Laminar Flow Based Microbial Fuel Cells
12.30-1.00	Closing Ceremony (H-C Chang) (DeBartolo, Rm 102)		