



# American Electrophoresis Society Program Grid



Annual Meeting, Philadelphia, PA, November 16 – 20, 2008  
All sessions held at the Marriott Philadelphia Downtown in Salon L

	Monday, November 17	Tuesday, November 18	Wednesday November 19	Thursday, November 20	
<b>8:30 am to 11:00 am Session</b>	<b>#10 - Advances In Electrokinetics and Electrophoresis - Fundamentals (T3012)</b>	<b>#233 - Nanoscale Electrokinetics I (T3013)</b>	<b>#393 - Advances In Proteomics: New Technologies (T3004)</b>	<b>#580 - Biomems and Microfluidics: Sensing, Detection, and Integration (T3002)</b>	<p>Many thanks to our meeting organizers!</p> <p><b>Shashi Murthy &amp; Jonathan Posner</b></p> <p>and to all Session Chairs &amp; Vice-Chairs</p>
	<i>Chairs: Brian Kirby; Huanchun Cui</i>	<i>Chair: Jonathan Posner</i>	<i>Chairs: Tom Berkelman; Phil Beckett</i>	<i>Chairs: Chang Lu; Saif Khan</i>	
	KD Dorfman DNA Electrophoresis in Micro and Nano Geometries (8:30)	SM Han Separation of Proteins in a Nanofluidic FET Device (8:30)	TK Pham Gel and Shotgun Analysis of Membrane Proteins (8:30)	H Lu High Resolution In Situ Temperature Measurement (8:30)	
	JA Pascal Gel Morphology and Separation in Nanocomposite Gels (8:55)	G Yossifon Selection of Non-Equilibrium Over-Limiting Currents (9:05)	LA Finney X-Ray Fluorescence Imaging Paired with Electrophoresis (8:50)	S Puttaswamy Micro-Device to Detect Bacterial Proliferation (8:50)	
	EO Elele Conductance of Surfactant and Electrolyte Solutions (9:20)	DN Petsev Preconcentration and Separation in Nanofluidic Channels (9:30)	N Kendrick 2D Gel Western Blotting for Studying Disease Processes (9:10)	NS Lynn Microfluidic Networks for Micromosaic Immunoassays (9:10)	
	DC Pozzo Protein-Surfactant Complexes In Gel Electrophoresis (9:45)	DA Boy Diffusivity Effects in Nanochannel Particle Transport (9:55)	JC Liu Visualization of Newly Synthesized Proteins In Mammalian Cells (9:30)	X Cheng Automated Monocyte Depletion for CD4 Counting (9:30)	
	JA Pascal Optimal Separation Times in an EFFF Separator (10:10)	JD Posner Electromigration Current Rectification in a Nanopore (10:15)	M Barthelemy Nuclear Proteomics (9:50)	JG Kralj "Detectorless" Electrophoresis for Multiplexed Enzyme Assays (9:50)	
	B Khusid MD Simulations of DC and AC Fields on Polyelectrolyte (10:35)	C Duan Transport of Ions and Molecules in Nanofluidic Devices (10:35)	K Xia Proteomics-Level Identification of Kinetically Stable Proteins (10:10)	T Leong Self-Loading Lithographically Structured Microcontainers (10:10)	
		PA DiMaggio Identification of Post-Translationally Modified Proteins (10:30)	ED Goluch Electrochemical Detection of Signaling Biomolecules (10:30)		
<b>12:30 pm to 3:00 pm</b>	<b>#65 - Advances In Electrokinetics and Electrophoresis - Particles and Biomolecules (T3003)</b>	<b>#302 - Nanoscale Electrokinetics II (T3000)</b>	<b>#456 - Advances In Proteomic Analysis &amp; Microfluidic Technologies (T3000)</b>	<b>#628 - Biomems and Microfluidics: Biomedical Diagnostics (T3001)</b>	<p>Many thanks also to companies sponsoring the AES!</p> <p><b>BD Diagnostics</b></p> <p><b>Bio-Rad Labs</b></p> <p><b>CBS Scientific</b></p> <p><b>GE Healthcare</b></p> <p><b>Kendrick Labs</b></p> <p><b>Ludesi</b></p> <p><b>Nonlinear Dynamics</b></p> <p><b>Syngene</b></p>
	<i>Adrienne Minerick; Christa Hestekin</i>	<i>Chair: Jonathan Posner</i>	<i>Chairs: Ajay Sharma; Victor Ugaz</i>	<i>Chairs: Nimisha Srivastava; Siva Vanapalli</i>	
	BH Lapizco-Encinas Dielectrophoresis of Protein Particles (12:30)	J Han Nanofluidic Concentration and Detection of Biomolecules (12:30)	BA Chromy Multiplexed Proteomic Study of Host-Pathogen Interactions (12:30)	C Lu Microfluidic Electroporative Flow Cytometry (12:30)	
	KM Leonard Dielectrophoretic Characterization of RBCs (12:51)	MZ Bazant Nanoscale Induced-Charge Electrokinetic Phenomena (1:05)	N Bao Microfluidic Extraction of Intracellular Proteins from Bacterial Cells (12:51)	F Wang Droplet-Based PCR in a Valveless Microfluidic Device (12:50)	
	ZR Gagnon Dielectrophoretic Electrothermal Cell Separation (1:12)	R Kawano DNA Structure Discrimination in Single Protein Channels (1:40)	G Yossifon Eliminating Electrokinetic Cross-Talk in Nano-Channel Arrays (1:12)	H Lu Multi-Time Point Cell Stimulus and Lysis (1:10)	
	JR Molek Capillary Electrophoresis of Pegylated Proteins (1:34)	D Bottenus Native pH Shifts In a Nanochannel Array (2:05)	T Berkelman Bead-Based Enrichment of Low-Abundance Proteins (1:33)	R Singh Acoustic Streaming Induced Flow on a Focused SAW Device (1:30)	
	O Selivanova Effect of Serum Contaminants on CE of DNA and RNA (1:55)	W Timp Stretching Genes (2:30)	B Liu Isotachopheresis Followed by Isoelectric Focusing (1:54)	H He Polymeric Microfluidic Biochips for ELISA (1:50)	
	M Oyanader Flow Reversal in Capillary Channels with EOF (2:16)		Y-W Huang Label-Free Detection of Proteins, DNA, and Other Analytes (2:15)	N Agrawal Neutrophil Isolation and Migration In Complex Environments (2:10)	
JM Burke Electrofocusing of Trace Contaminants (2:37)		DE Discher Protein Unfolding and Assembly in Solution and in Cells (2:36)	SS Keshavam Insulator-Based Dielectrophoretic System for Erythrocytes (2:20)		
<b>3:15 pm to 5:45 pm</b>	<b>#136 - BioMEMS and Microfluidics: Cell &amp; Biomolecule Analysis (T3011)</b>	<b>#333 - BioMEMS and Microfluidics - Novel Applications (T3008)</b>	<b>#518 - AES Poster Session (T3006) Exhibit Hall A at the Pennsylvania Convention Center</b>	<b>Tuesday's Field Trip!</b> An AES Field Trip to the University of Pennsylvania Proteomics Center headed by Dr. Ian Blair will take place on Tuesday Nov. 18 from 3:15 to 5:45. The pickup site is the 12th St entrance at the Marriott. A fee of \$20 payable at the pickup site will be charged to cover the bus expense.	<p><b>The American Electrophoresis Society</b> Contact Matt Hoelter, Executive Director 1202 Ann St Madison, WI 53713 Tel: 608-258-1565 Fax: 608-258-1569 matt-aes@tds.net</p>
	<i>Chairs: Milica Radisic; Christa Hestekin</i>	<i>Chairs: Hang Lu; Kevin Dorfman</i>	<i>Chairs: Shashi Murthy; Jonathon Posner</i>		
	KD Dorfman DNA Electrophoresis in Sparse PDMS Micropillar Arrays (3:15)	D Stark High-Throughput Microelectroporator (3:15)	<b>The AES Poster Session will take place from 3:15 to 5:45pm Wednesday</b> when three judges appointed by the council will determine winners of the Poster contest. Poster awards will be \$200 for First Place; \$100 for Second Place, \$50 for Third Place and \$25 for Honorable Mention. Note that AES posters will be up from Monday noon through Thursday noon for general viewing.		
	N Shi Pore Morphology in Microchip DNA Electrophoresis (3:36)	J-H Huang 3-D Branched Microvascular Flow Networks (3:36)	<b>The AES business meeting will take place at 6:00 to 7:00pm Wednesday Nov. 19</b> in Room 307 of the Philadelphia Marriott. Please attend! The society needs your input. Organizers are needed for the 2010 meeting.		
	BE Henslee Optical Tweezers for Electroporation Analysis (3:57)	SK Murthy Microfluidic Negative Selection Cell Separation (3:57)			
	X Hu Electric Field Effects on a Multi-Cell System (4:18)	J Wang Microfluidic Cell Electroporation Using a Mechanical Valve (4:18)			
	MA Brown Microfluidic Devices for Cell Separation (4:39)	SG Achanta Control of Nutrient Gradients for Plant Culture on a Chip (4:39)			
	H-Y Wang Microfluidic Cell Array with Addressable Chambers (5:00)	N Bassik Complex 3D Scaffolds for Cell Culture (5:00)			
FY Leong Cell Migration In Tapered Micro-Channels (5:21)	AJ Chung Microfluidic Neuromuscular Control of Insect Micro-Air-Vehicles (5:21)				