



## SciX (AES/FACSS) Joint Sessions Program Grid

### September 28 - October 5, 2012 at Sheridan Crown Center in Kansas City, MO

	Monday, October 1	Tuesday, October 2	
		<b>Chicago C</b>	
<b>10:20 am - 12:00 pm</b>		<b>Recent Advancements in Electrophoretic Separation</b>	
		<b>Chairs: Wenwan Zhong and Shramik Sengupta</b>	
		<b>Michael Heien</b> Quantification of Drug Delivery by Capillary Electrophoresis	
		<b>Jing Ouyang</b> <b>Arnab Ghosh</b> High Sensitive Approaches for the Fluorescence Imaging Detection of Human Serum Proteins after PAGE	
		<b>Adrienne Minerick</b> Surface Electrophoresis of ds-DNA Molecules	
	<b>Wenwan Zhong</b> Dielectrophoretic Manipulation of Erythrocytes for Blood Typing		
		<b>Wenwan Zhong</b> Determination of Aptamer-Protein Binding Affinity using Open-Channel Separation Techniques	
		<b>Chicago C</b>	
<b>1:20 pm to 3:00 pm</b>		<b>Next Generation Electric-Field Driven Separation</b>	
		<b>Chairs: Christa Hestekin and Lisa Holland</b>	
		<b>Ingrid Fritch</b> Fine-Tuning the Flow Profile, Direction, and Speed of Fluids on a Chip with Redox-Magnetohydrodynamics	
		<b>Chris Harrison</b> Low Cost Paper-PDMS Electrophoretic Separation Devices	
		<b>Jamie Hestekin</b> Electrodeionization for Selective Separations	
		<b>David Scott</b> A On-Animal Separation Based Sensor with Amperometric Detection	
	<b>Christa Hestekin</b> Evaluation of Amyloid Protein Oligomer Formation Using Microchannel Electrophoresis		
	<b>New York B</b>	<b>Chicago C</b>	
<b>3:50 pm to 5:30 pm</b>		<b>Microfluidics and Nanofluidics</b>	
		<b>Chairs: Dana Spence and Edgar Goluch</b>	
	<b>David Eddington</b>	Controlling Oxygen via Microfluidic Devices for Cells and Tissues <i>in vitro</i>	<b>Brian Kirby</b> Dielectric and Dielectrophoretic Measurements and Manipulations of Cells for Human Health and Energy Applications
	<b>Scott Martin</b>	Polystyrene-based Microfluidic Devices for Integrating Cell Immobilization with Analysis	<b>Zachary Gagnon</b> Interfacial Microfluidics for Biochemical and Cellular Analysis
	<b>Susan Lunte</b>	Microchip Electrophoresis Based Methods to Monitor Nitric Oxide Metabolism and Reactive Nitrogen Species	<b>Robert Rhien</b> Dielectrophoresis of Polyelectrolytes in Nanofluidic Landscapes
	<b>Edgar D. Goluch</b>	Monitoring Bacterial Production of Pyocyanin using Microfabricated Electrochemical Sensors	<b>Magnus Jaeger</b> Single-cell Electrofusion: Three DEP Elements in one Process Chain
	<b>Dane Grismer</b>	Effects of Confinement on Macromolecular Transport in Nanochannels Studied by Fluorescence Correlation Spectroscopy	<b>Bahige Abdallah</b> A Dielectrophoretic Sorter for Nanoparticle and Nanocrystal Separation