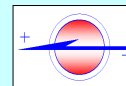
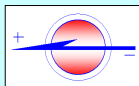


American Electrophoresis Society Program Grid

Annual Meeting, Salt Lake City, UT, November 7 – 10, 2010

Hilton Salt Lake City Center (Salon III)



	Mondav. November 8	Tuesdav. November 9	Wednesdav November 10				
8:30 am to 11:00 am Session	#5 - Advances In Electrokinetics and Electrophoresis - Fundamentals (T3007) Chairs: Rajiv Bharadwaj; Tarun Khurana N Laachi DNA Electrophoresis in Inverse Opals (8:30) RC Gallo-Villanueva Microalgae Viability in Insulator-Based Dielectrophoresis (8:45) DC Pozzo Engineering Protein Electrophoresis through Surfactant Nanostructure Design (9:00) A Gencoglu Investigation of Natural pH Gradient Formation within Microchannels (9:15) PG Erlandsson Ion-Electron Transducing Electrodes for Electroosmotic Micropumps (9:30) JA Pascal Electrical Field Flow Fractionation (EFFF) Separator with Couette Flow (9:45) EV Dydek Super-Limiting Current in Porous Media (10:00) TF Kinde A Microfluidic Platform for Quantitation of Biological Mixtures (10:15) JS Paustian An Induced-Charge Electro-Osmosis Micropump (10:30) JJ Simhadri Effect of Channel Morphology for Electrophoresis of Bio-Molecules (10:45)	#198 - Advances In Proteomics: New Technologies (T3000) Chairs: Tom Berkelman; Phil Beckett A Posch Subcellular Fractionation in a Fluidic Microsystem by Dielectrophoresis (8:30) A Chandrasekaran Microscale Cell-Free Expression and Activity Screening of Cellulases (8:51) R Baliban A Novel Approach for Modified Protein Identification (9:12) N Kendrick Phosphorylated Protein Standards for 2D Gel Western Blotting (9:33) R Westermeier New Developments in the Gel-Based Proteomics Workflow (9:54) E Pryor Separation of Amyloid Proteins Via Capillary Electrophoresis (10:15) GB Smejkal Isolation of Proteins From the Oligo-Miocene Epoch 30-40 Million Years Ago (10:36)	#415 - Nanoscale Electrokinetics (T3002) Chair: Debashis Dutta CL Wirth Imaging Amperometry: Single Particle Experiments and Theory (8:30) JY Sen Multiple Measurements On Single DNA Molecules in Nanopore Sensors (8:48) K Zhou Nanopore Sensing and Characterization of Hepatitis B Viral Capsids (9:06) HW Lau Applications of Nanoparticle Organic Hybrid Materials in DNA Separation (9:24) AS Khair Electrokinetic Pre-Concentration in a Voltage Gated Nanochannel (9:42) V Froude Dielectrophoresis and AC-Field Induced Encapsulate Release of Micelles (10:00) J Baylon-Cardiel Microparticle Manipulation by Insulator-Based Dielectrophoresis (10:18) JJ Simhadri Effect of Capillary Morphology On Electrokinetic Cell Design (10:36)	Thank You! Many thanks to our meeting organizers! Kevin Dorfman & Shramik Sengupta and to all Session Chairs & Vice-Chairs Many thanks also to companies sponsoring the AES! Bio-Rad Labs CBS Scientific DECODON GmbH GE Healthcare LabSmith Kendrick Labs Our strong meetings would not be possible without help from these friends and supporters. The American Electrophoresis Society Contact Matt Hoelter, Executive Director 1202 Ann St Madison, WI 53713 Tel: 608-258-1565 Fax: 608-258-1569 matt-aes@tds.net			
	General Announcements Sunday Workshops (Room 252 A/B) S5: AES Workshop Part I (9:00 AM to 12:00 PM) - Electrokinetic Transport in Microfluidic Devices (Registration fee includes S6-AES Workshop Part II). Member rate is \$249. Student and Post-doc discounts are available via AICHE Customer Service at 800-242-4363 or 203-702-7660 (outside of U.S.). S6: AES Workshop Part II (1:00 PM to 4:00 PM) - Microscale Electrokinetics with COMSOL. Member rate is \$75 if this course is not taken in conjunction with Part I. A light lunch will be served between workshops.						
	12:30 pm to 3:00 pm	#96 - Fundamentals of Electrokinetic Flows: Novel Applications and Ionic Fluxes at Interfaces (T3001) Chairs: Jonathan D. Posner; Aditya S. Khair A Mani Desalination Shocks in Microstructures (12:30) S Basuray Asymmetric Electrophoresis and Warburg Impedance Across Nanoslots (12:50) CF Ivory Electrokinetic Flows in Gradient Monoliths (1:06) S Ghosal DNA Electrophoresis through Nanopores (1:22) R Kekre Electrophoretic Mobility of Polyelectrolytes in Uniform Shear Flow (1:38) G Azadi Protein-Surfactant Structure for High Resolution Microchip Electrophoresis (1:54) CL Wirth 2D Assembly of Colloid Particles on an Electrode (2:10) A Sen Chemo and Phototactic Nano/Microbots (2:26) G Vidal Guided Motion of Self-Propelled Magnetic Colloidal Particles (2:42)	#258 - Biomedical Diagnostics I (T3008) Chair: Adam Woolley GA Liddiard Scalable Disposable Microfluidic Sample Handling Device (12:30) MA Johnson A Fully Automated Microfluidic Platform for Nucleic Acid Extraction (12:48) TN Chiesi Microfluidic Mars Organic Analyzer for Detection of Organic Biomarkers (1:06) AC Jernigan Detection of Rare Variants of Type 2 Diabetes by CE-SSCP (1:24) KB Neeves Microfluidic Flow Assays for Diagnosing Bleeding and Thrombotic Disorders (1:42) S Senapati Electrochemical Biomolecule Sensing by Carbon Nanotubes (2:00) KM Leonard Response of Human Erythrocytes to AC Dielectrophoretic Stimulus (2:18) SK Srivastava Insulator Based Dielectrophoresis: Dependence of Erythrocyte Antigens (2:36)		#462 - DNA Analysis in Microfluidic and Nanofluidic Devices (T3003) Chair: Anubhav Tripathi CC Hsieh Electrophoretic Stretching of DNA in a Microcontraction (12:30) CM Edmonds DNA Translocation through Nanopores Under Time-Varying Electric Fields (12:45) H Liu Polyelectrolyte Conformational Dynamics Under An AC Electric Field (1:00) T Niedringhaus Effect of Polyacrylamide Chain Orientation on Peak Width in DNA Sequencing (1:15) RJ Meagher Electrophoretic Concentration of DNA at Nanoporous Polymer Membranes (1:30) J Ou Long DNA Separation Using a Sparse Micropost Array (1:45) J Wu DNA Separation and Sequencing at a Stretch (2:00) N Shi Exploiting the Entropic Trapping Regime for Enhanced Separations (2:15) T Geng Microfluidic Native Chromatin Immunoprecipitation Assay (2:30) G Wang Far-Field Optical Nanoscopy for Nanofluidics (2:45)		
		Tuesday: AES Poster Session #372, 6-8 PM, Hall I, Salt Palace Convention Center Poster abstracts will be accepted until 31 October. Please email abstracts to Victor Ugaz at ugaz@tamu.edu . Tuesday: AES Business Meeting 11:00 to 12:30, Salon III. Society business will be covered - all members or potential members are invited.					
		3:15 pm to 5:45 pm	#166 - Plenary Session of the American Electrophoresis Society (T3005) Chairs: Kevin Dorfman; Shramik Sengupta JD Posner Electrokinetic Locomotion by Reaction Induced Charge (Auto-Electrophoresis) (3:15) WD Ristenpart Non-Coalescence of Oppositely Charged Drops (3:45) TM Squires Ion Conservation and its Consequences for Electro-Osmosis and Electrophoresis (3:15) HC Chang A New Quantitative Molecular Detection Platform for Field Applications (4:45) AK Singh Studying Host-Pathogen Interactions with Single-Cell Resolution (5:15)		#314 - Biomedical Diagnostics II (T3009) Chairs: Bruce Gale; Adam Woolley MA Johnson Selective RNA or DNA Extraction From Various Raw Biological Samples (3:15) Y Zhan One-Step Extraction of Subcellular Proteins From Eukaryotic Cells (3:31) TN Chiesi Electrophoresis of Organic Biomarkers in the Mars Organic Analyzer (3:47) GA Liddiard Nucleic Acid Filter with Integrated Demultiplexing and Multiplexing (4:03) RJ Meagher Chip-Based Identification of Bacteria From the Human Microbiome (4:19) HJ Sant Microfluidic Serotype Identification of Foot and Mouth Disease Virus (4:35) VM Arremsetty Asymmetrical Cross-Flow Based Split Thin Cell Fractionation (4:51) E Liddiard Measurement of Muscle Force in C. Elegans Worm Using Microfluidics (5:07) MA Johnson Masked Corona Discharge for Selective PDMS Bonding (5:23)	#535 - Electrokinetic Behavior of Microparticles and Nanoparticles: Fundamentals and Applications (T3004) Chairs: Blanca Lapizco-Encinas; Rafael Davalos RR Chintakuntla Entrapment of Human Leukemia Cells Using Contactless Dielectrophoresis (3:15) JD Posner Electrokinetic Vortices and Traveling Waves in Non-Dilute Colloidal Dispersions (3:36) LA Holland Crossover Frequency of Polystyrene Particles in Dielectrophoresis (3:57) AA Kayani Dielectrophoretic Manipulation of Silica Nanoparticles in Optofluidics (4:18) H Moncada-Hernández Dielectrophoretic Manipulation of Microorganisms in Insulator Arrays (4:39) JS Park Microstructure and Pattern Formation in Suspensions of Polarizable Spheres (5:00) ZR Gagnon Dielectrophoresis at Conductive Liquid Interfaces (5:21)	
			Want to get involved with AES Programming? Attend the business meeting and volunteer by contacting our 2011 organizers: Blanca Lapizco (blapizco@investav.mx) and Zach Gagnon (zgagnon1@hmi.edu). Wednesday: AES Banquet at 7:30pm! The AES Banquet will take place at Bucca de Bevo. The cost is \$50 payable either to AICHE at registration or at the door.				