

Chemical & Biomolecular Engineering November 4, 2017

Location: Duncan Hall, Rice University

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8:15AM – 9:00AM	Breakfast and Registration
9:00AM – 9:30AM	Keynote: Prof. Sherry Gao
9:30AM -10:30AM	 Nicholas Curtis: Development and application of a CRISPRa system for Yarrowia lipolytica Bobi Simonsen: Enhancing ethanol production with RNA-engineering of Zymomanas mobilis Kevin Le: Development of a Potent Chimeric Antegen Receptor for Human Cytomegalovirus Therapy Poonam Reena Bhikha: Uncovering the Effects of Oxidative RNA Modifications on the Formation of Protein-RNA Complexes
10:30AM-10:45AM	Coffee Break
10:45AM – 11:45AM	 Session 2 Chair: Sherry Gao Ranad Humeidi: Synthesis and Optimization of a Near-Infared Fluorescent Choline Kinase α Inhibitor Alondra Escobar: High resolution optical imaging of human leukocytes in aqueous buffer Andrea Gavilanes Trivino: Preparation, Characterization and Reaction Kinetics of Green Cement: Ecuadorian Natural Modernite-based Geopolymers Juan J. Izurieta: Effect of Surface Moisture on Bonding Behaviour of Epoxy Coatings on Concrete
11:45AM -1:00PM	Lunch
1:00PM -1:30PM	Keynote: Prof. Tom Senftle
1:30PM -2:30PM	 Session 3 Chair: Rafael Verduzco Aisha Hasan: Antibody-Functionalized Nanophosphor Particles for Use as Reporters in Lateral Flow Assays Neal Cardoza: Fast Charging, High Energy Rechargeable Li-S batteries: Carbon Sulfur Composites from Autogenic Synthesis James Owens: Cellulose Nanocrystal Templates for Transparent Conductive Films Victoria Hicks: Detection and Quantification of Carbon Nanotubes Through Thermal Response to Electromagnetic Radiation
2:3 PM – 2:45PM	Break

	Session 4 Chair: Tom Senftle
2:45PM- 3:45PM	 Kathryn Wilcox: QCM-D Investigation of Swelling Behavior of Layer-by-Layer Thin Films upon Exposure to Monovalent Ions Fernando Lejarza: BSA-Protected Gold Nanoclusters for On-Site Detection of Pb(II) in Water Lazaro Lopez Mendez: Nanoscale Resolution Optical Microscopy of Fibrin and Platelet Matrix Njideka (Syndi) Nnorom: Alternative Ion-Exchange Water Treatment Method-Reducing Mineral Scale in Evaporative Cooling Towers
3:45PM-5:00PM	Break / Group Photo / Campus Tour
6:00PM	Symposium Reception-BRC Event Space

All participants will attend keynote talks together, prior to splitting into sessions. Students are asked to participate as audience members when not speaking.