

Chemical Engineering Student Seminar Day – December 3, 2025 Location: Dupuis 215

Time: 9:00am Chair: Dr. Dinh (1st Session) & Dr. Koupaie (2nd Session) Co-Chair: Romina Shirazi (1st Session) & Joshua Buzolic (2nd Session)

TIME	SPEAKER	SUPERVISOR	TITLE
9:00am	Shizhe Dong	Hutchinson	Improving Cu-Mediated Reversible Deactivation Radical Polymerization Semi-Batch Systems for Acrylate Block Copolymers
9:20am	AmirAria Latifzadeh	Docoslis	Lab scale production of graphene oxide nanoplatelets by electrochemical exfoliation for use in the separation of isotopic water mixtures
9:50am	Guorui Gao	Dinh	Intermittent Operation Strategy for Stable C2+ Production in an Aqueous CO2RR System
10:20am	BREAK		
10:30am	Mohammad Bandpey	Barz	Development of Self-assembled Ti3C2Tx MXene/rGO Hydrogels as Electrode Materials for Supercapacitors
11:00am	Shabnam Ghanbarzadeh	Koupaie	Hydrothermal Liquefaction of Municipal Wastewater Sludge from the City of Kingston
11:30am	Roxana Abdi	Kontopoulou	Optimizing the Conditions of 3D Printing of Thermoplastics Composites with Carbon Nanotubes Using a Novel Pellet-fed material extrusion (PF-MEX) Process
11:50am	Namratha Gudigunti	Docoslis	Development of SERS-Based Microfluidic Platforms for Bioanalytical Applications
12:10pm	LUNCH		

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Time: 9:00am Chair: Dr. Dang (1st Session) & Dr. Guay (2nd Session) Co-Chair: Mouna Harb (1st Session) & Aidan England (2nd Session)

TIME	SPEAKER	SUPERVISOR	TITLE
9:00am	Faraz Arafati	Koupaie	The assessment of biochar addition on Anaerobic Co-Digestion
9:20am	Tai Van Nguyen	Dinh/Guay	Modulation of local environment for selective bicarbonate conversion to multi-carbon products
9:50am	Andrew Sellathurai	Barz	Self-Assembled vanadyl sulfate-graphene hydrogel-based cathodes for high capacity aqueous zinc-ion batteries
10:20am	BREAK		
10:30am	Mouna Harb	McAuley	Incorporating ARIMA-Inspired Disturbances in Fundamental Models for Online Use
11:00am	Shivanthi Dharmarathna	Kontopoulou	Development of Polylactide/Graphene Nanoplatelet Composites for Electronic Applications Requiring High Permittivity
11:30am	Fatemeh Salarhosseini	Hutchinson	Measurement of Radical Polymerization Kinetics of Sparingly Water-Soluble Monomers in Organic and Aqueous Solvents
12:10pm	LUNCH		