

Chemical Engineering Student Seminar Day – November 23, 2023**Location: BMH 313****Time: 11:30am Chairs: Dr. Nicolas Hudon****Co-Chairs: Jakob Straznicky & Alaa El Halabi**

TIME	SPEAKER	SUPERVISOR	TITLE
11:30am	Houda Haidar	McAuley	Modeling of a heat-integrated biomass downdraft gasifier: Influence of feed moisture and airflow
11:50am	Mouna Harb	McAuley	Improved Gain Conditioning for Linear Model Predictive Control
12:10pm	Iman Moshiritabrizi	McAuley	Parameter Estimation and Estimability Analysis in Pharmaceutical Models with Uncertain Inputs
12:30pm	Lauren Gibson	McAuley	Model-Based Bayesian D-Optimal Design of Experiments in Pharmaceutical Production
12:50pm	Mahsa Esmaeilzadeh	Hutchinson	Quantitative Insights into Poly(acrylate) Formation: Comparing Model Predictions with Experimental Data in High-Temperature Semi-Batch Radical Polymerization
1:30pm	Lunch provided by CEGSA 1:30-2:30pm – DUP 217		

Chemical Engineering Student Seminar Day – November 23, 2023 Location: Dupuis 217

Time: 2:30pm Chairs: Dr. Rachel Baker

Co-Chair: Haritha Haridas & Josh Chamberland

TIME	SPEAKER	SUPERVISOR	TITLE
2:30pm	Alireza Bagherzadeh Hosseinabad	Docoslis	Filtration of isotopic water mixtures with graphene oxide (GO) membranes
2:50pm	Ej Jun Lung	Barz	Supercapacitor-battery hybrid based on multivalent vanadium for storage of renewable energy
3:10pm	Cornelius Obasanjo	Dinh	High-rate and selective conversion of CO ₂ from aqueous solutions to hydrocarbons
3:30pm	Behnam Nourmohammadi Khiarak	Dinh	Extending formate production operation time from CO ₂ electroreduction on Sn-based catalyst through in-situ regeneration