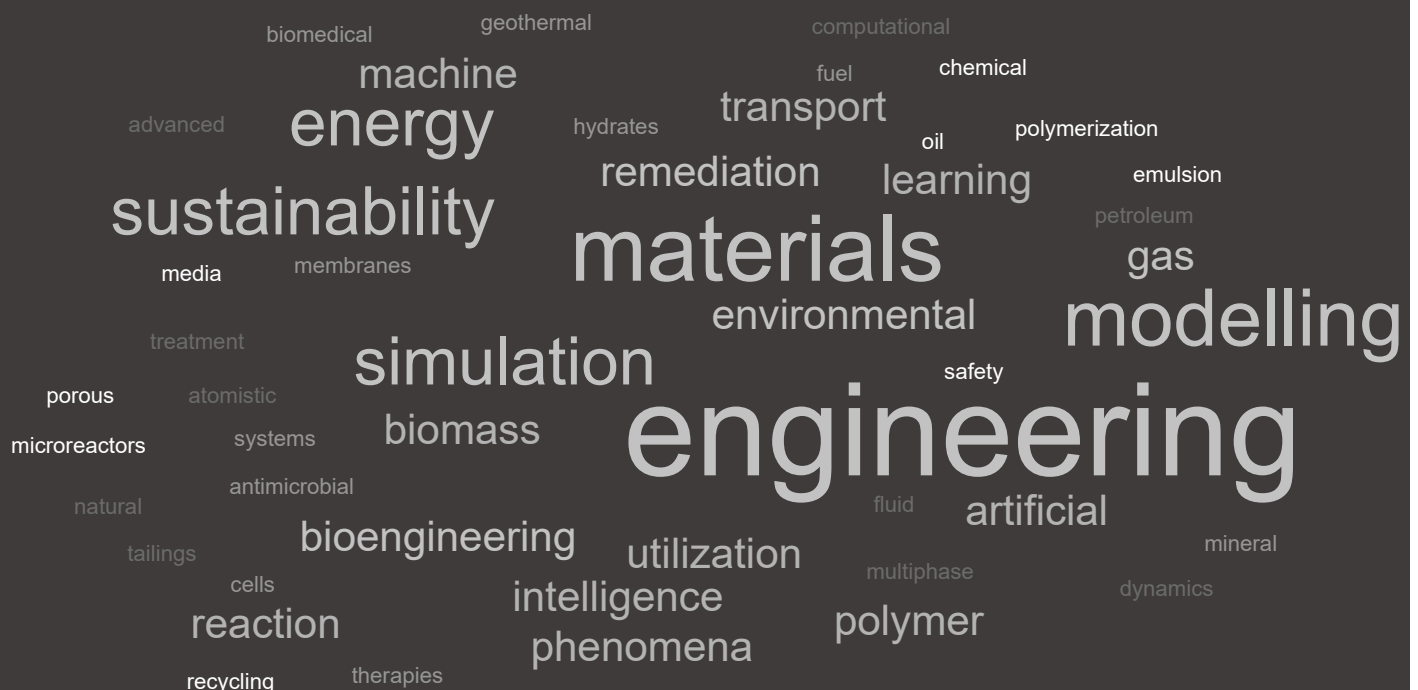


Advances in Chemical Engineering: A CJCE Symposium



*30-minute talks on topics in all areas of chemical engineering
designed for a general audience of chemical engineers*



Canadian Chemical Engineering Conference

CSChE **CALGARY**
2023 OCTOBER 29 - NOVEMBER 1

Transitions: Materials, Energy, and the Environment



20+ invited speakers



From 15+ institutions



Across 7 countries



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Paul Amyotte	The global scope of process safety research
Kevin De France	Sustainable building blocks from cellulose and proteins: Understanding structure-function relationships towards advanced materials
Naoko Ellis	Biomass gasification and its role in Canada
Peter Englezos	An overview of fundamentals and technical applications of gas hydrates
Leonardo Fregolente	Biomass co-processing opportunities in oil refineries
Sarang Gumfekar	Hydrogel-filled ultrafiltration membranes for low-pressure water treatment operation
Jan Haelssig	Scaling of microreactors under oscillatory and non-oscillatory flow conditions
Savvas Hatzikiriakis	Aminated polyethylenes: Rheology, self-healing, and adhesion
Zeinab Hosseini-Doust	Bioengineering a new antimicrobial therapy using bacterial viruses
Shaffiq Jaffer	Challenges facing the energy transition: Need for systems engineering
Qi Liu	Flocculation of mineral suspensions
Kun Luo	Eulerian-Lagrangian models for chemical looping combustion
Daniele Marchisio	Machine learning for flow and transport in porous media
Tim McKenna	Mass transfer effects in multiphase emulsion polymerization
Anil Mehrotra	Differentiating between mass- and heat-transfer controlled processes: Ongoing debate for wax deposition prediction
Samir Mushrif	Application of first-principles based atomistic modelling in catalysis and reaction engineering research
Meng Ni	Development of solid oxide fuel cells for clean power generation
José Carlos Pinto	Chemical recycling of polyolefin wastes through pyrolysis: Process development and technological challenges
Gregory Patience	Challenges in funding a start-up: Micro-gas-to-liquids
Mahla Poudineh	Next-generation enabling technologies for health monitoring
Roman Shor	A geothermal future for the chemical engineer
Simant Upreti	Applications of artificial intelligence in process control: Recent developments
UT Sundararaj	Morphology development and electrical properties in multiphase polymer materials
Harvey Yarranton	Towards predicting the properties and stability of visbroken bitumen
Lifeng Zhang	Synchrotron-based X-ray imaging for advancing transport phenomena in porous media