



COSMO – Stochastic Mine Planning Laboratory
Mining Engineering

Technical Day – Hybrid Format

Friday June 20th, 2025
09:00 – 17:00 (EDT)

In person: Room 267, Macdonald Engineering Building, McGill University
817 Rue Sherbrooke W, Montreal QC

Virtual: Microsoft Teams Meeting

Board's Dinner with Staff, Students and Friends

Thursday June 19th, 2025
17:45– 21:00 (EDT)

Gibbys

298 Place d'Youville, Montréal QC, H2Y 2B6
514-282-1837
Reservation under COSMO

If you are attending virtually, please accept the invitation through your email.
If you are attending the presentations in person or the dinner, please RSVP to:

Caroline Bilhete
admcrcl.mining@mcgill.ca



COSMO – Stochastic Mine Planning Laboratory

Mining Engineering

TECHNICAL DAY PROGRAM

June 20th, 2025

In person: Room 267, Macdonald Engineering Building, 817 Sherbrooke W
(enter through Frank Dawson Adams Building, 3450 Rue University)

9:00 – 9:15	<i>Roussos Dimitrakopoulos - Welcome and Update on New Developments</i>
9:15 – 9:45	Integrating Planning Horizons and Capital Investments with Multi-Level Stochastic Optimization and Reinforcement Learning <i>Liam Findlay</i>
9:45 – 10:15	A Joint Approach to the Implementation of Fleet Management Systems with Stochastic Short-Term Production Scheduling in Open Pit Mines <i>Lee Zamalloa</i>
10:15 – 10:45	End-to-end Learning for Mining Complexes Optimization <i>Lidiia Shchichko</i>
10:45 – 11:00	<i>Break</i>
11:00 – 11:30	Joint Fleet Management and Stochastic Mine Planning with Carbon Footprint Reduction <i>Victor Balboa Espinoza</i>
11:30 – 12:00	Advancing the Large-Scale Joint Stochastic Optimization of Stope Design and Long-Term Production Scheduling for Underground Mines using GRASP <i>Angus MacRae</i>
12:00 – 12:30	Simultaneous Stochastic LOM Optimization at a Low-Grade Iron Ore Mining Complex <i>Laura Carelos Andrade and Benny Cohen</i>
12:30 – 13:30	<i>Lunch</i>
13:30 – 14:00	Simultaneous Stochastic Optimization: Integrating Waste Encapsulation, Progressive Reclamation, and Haulage Management <i>Victor Guimaraes</i>
14:00 – 14:30	High-Order Simulation of Categorical Geology Domains and Continuous Gold Variables - A Case Study of Awonsu Gold Deposit <i>Fred Appiah</i>
14:30 – 15:00	A Generative Approach for Stochastic Simulation Based on Restricted Boltzmann Machine <i>Yanyan Mu</i>
15:00 – 15:15	<i>Break</i>
15:15 – 15:45	Simultaneous Stochastic Optimization of Mining Complexes: Balancing Investments in Renewable Energy Systems and Local Community Development <i>Ibrahim Cetin</i>
15:45 – 16:15	Stochastic Optimization of the Port to Client Supply Chain Under Mineral and Freight Uncertainty <i>Ronak Vimadlal</i>
16:15	<i>Closing Remarks: Research in the Year Ahead</i>

Virtual: Microsoft Teams meeting