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A research arm of:

Laurentian University
Canada's Mining University

Mining Innovation, Rehabilitation and Applied Research Corporation  **Sudbury, ON Canada**

FALL 2021 NEWSLETTER

Who We Are

We are the innovative research partner of choice for mining and related industries since 1998. MIRARCO's talented team of academic and industry professionals offer their expertise to solve mining industry challenges through applied research.

As a not-for-profit research arm of Laurentian University, we provide our industry partners with access to knowledge, funding, students, support and assistance for new projects.

News Stories & Announcements



Dr. Nadia Mykytczuk is added to BacTech Environmental's Strategic Advisory Board

MIRARCO's President and CEO, Dr. Nadia Mykytczuk, has been added to the strategic advisory board of [BacTech Environmental Corporation](#). Dr. Mykytczuk, who has been collaborating with the Toronto-based company for over 10 years, is working with their scientific team to discover innovative ways to use BacTech's green mining technology.

Read more about this story, [here](#) and [here](#).

MIRARCO's first webinar on Natural Heat Exchange Engineering Technology

On November 3rd, MIRARCO hosted its first-ever webinar on the Natural Heat Exchange Engineering Technology (NHEET) project. NHEET is a technology development program for zero-emission conditioning of mine ventilation air. It examines the use of fractured rocks to improve cooling and air delivery in underground mining.

For more information, please visit our brand new project website [nheet.ca](#), or contact us at nheet@mirarco.org

A full recording of the presentation can be viewed below.



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Presented by Patrick Gareau, Research Assistant at MIRARCO and a member of the NHEET research team.



MIRARCO and Laurentian University welcome delegates from Queen's University.

On November 16th, MIRARCO and Laurentian University hosted a delegation of the mining engineering faculty from Queen's University, led by Dr. Julian Ortiz, to discuss future opportunities to collaborate on industry-specific challenges and research. This opportunity was initiated through MIRARCO with support from the Board of Director co-chairs, Dr. Fred Delabbio, Director, Strategy Focused Innovation (SFI), and Luke Mahony, Vale Head of Geology, Mine Engineering, Geotechnical, Technology & Innovation. Several representatives from Vale also joined in person.

Queen's University's visit to Sudbury signified the potential of future collaborative endeavors between MIRARCO-Laurentian-Queen's that aim to find solutions for mining challenges around the globe.



MIRARCO and Laurentian University launch new collaborative project with Peru

MIRARCO, a research arm of Laurentian University, has entered into a new collaboration with [Universidad Nacional de Moquegua](#) (UNAM) and [CORE Foundation](#). The research project aims to develop a remediation plan to improve the water quality throughout the Coralaque River watershed in Peru and help the local communities that have been affected by this issue. MIRARCO and Laurentian University recently sent a research team to Peru to begin the first phase of the project.

Click [here](#) to read the full story!

RPMGlobal acquires three mine planning optimization software products from MIRARCO

MIRARCO has entered a three-year collaborative research partnership with Australian software firm, [RPM Global](#), which includes the acquisition of three mine planning optimization software products. The three software additions will reinforce RPM's Design and Scheduling

Read more about this story, [here](#) and [here](#).



[Upcoming Online Training in 2022 at Canada's Mining University.](#)

The following courses are all half-day, online and instructor-led!

Project Management Training

[Leading Project-Driven Change | January 17 & 18, 2022](#)

[Introduction to Agile Project Management | February 3 & 4, 2022](#)

[Project Procurement & Contract Management | February 24 & 25, 2022](#)

[Project Closeout Best Practices | March 7 & 8, 2022](#)

[Project Delivery Principles | March 31 & April 1, 2022](#)

[Project Communications & Stakeholder Management | May 30 & 31, 2022](#)

[PMP Exam Preparation | 2021 - Online Sessions \(See Course Page\)](#)

For the complete course lineup, please [click here](#).

What We Do



Our Research Centres

Our team of experts divide their focus in four distinguished areas:

Geomechanics, Software, Safety, and Energy.

Safety

The Safety Research & Training Centre specializes in the delivery of customizable globally recognized safety risk management programming for Executives, Managers, and Supervisors. MIRARCO has provided training to mining companies across Canada and the US.

The centre is led by Glenn Lyle, Director, Health, Safety, and Risk Management, who has been with MIRARCO for the past decade. Glenn is a Professional Engineer with a long experience in the industry, most notably dedicating 33 years to Vale (formerly INCO) in various capacities (engineering, operations and safety). Glenn is also an active participant in the CIM and is currently Chair of the newly formed Health and Safety Society and an Executive Director of the Maintenance, Engineering and Reliability (MER) Society. Glenn is also part of the CIM Distinguished lecturer program.



G-MIRM

The Global Minerals Industry Risk Management course (GMIRM) is aimed at anyone with a potential or actual responsibility for defining and managing site, operation, or discipline approaches to risk management. This may include General or Mine Managers, Superintendents, Plant Supervisors, etc.

Glenn Lyle has worked extensively with Jim Joy, a retired professor from the University of Queensland and originator of the Global Minerals Industry Risk Management Program (GMIRM), and Dr. Patrick Foster, Associate Professor in Mine Safety, Camborne School of Mines, United

For more information on G-MIRM, please click [here](#).

The International Search to Curtail Diesel Emission Projects

The International search to curtail diesel emission projects and associated workshops/presentations, are aimed at the **elimination of diesel soot in mining operations** – underground miners #1 hazard.

This applied research is supported by a consortium of Vale Sudbury/Thompson, Glencore, KGHM, Camiro, CANMET, NIOSH/USA, VERT/Switzerland, JM/Germany and TFHudgins/USA.



Where You Can Find Us

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