

CENTRE OF EXCELLENCE FOR SUSTAINABLE MINING AND EXPLORATION (CESME)

Director's Report



As we slowly return to normal operations, it's great to be able to re-engage with our community partners and continue to advance CESME goals of developing best

practices in sustainable mining.

CESME is continuing to engage with local mining companies by hosting "Discovery Days" where researchers at Lakehead present their work to company representatives in order to develop new partnerships. At a recent event with the Newmont Corporation, we highlighted a diverse range of activities including supply chain management, mental health, geoscience, tailings management and Indigenous employee support.

We have also started working with the Faculty of Education at Lakehead to provide geoscience education to both pre-service teachers and classroom instructors. By engaging with these groups, we hope to increase exposure to mining and geoscience, and increase enrolment at the University level in order to meet future workforce needs.

We are happy to help your company discover the breadth of research undertaken at Lakehead, just reach out!

cesme.lakeheadu.ca

Partnering Towards Discovery

It's been an exciting few months for research partnerships at CESME with several new projects receiving funding from the Natural Sciences and Engineering Research Council of Canada (NSERC) Alliance program. Combined, these projects have secured over \$600,000 dollars of research funding and are supporting five MSc students, significantly advancing CESME's goal of Partnering Towards Discovery!



Credit: Battle North Gold



The first project is a multi-partner collaboration involving Evolution Mining Limited in Red Lake, Northisle Copper and Gold Inc. on Vancouver Island, the University of Tasmania in Australia, and AMIRA Global. A total of \$120,000 from the industry partners has been matched by \$240,000 from NSERC and will support three MSc students investigating the alteration footprints around a porphyry/lithocap system in BC and an orogenic gold deposit in Ontario.

The second project is a partnership between Nighthawk Gold Corp. and the NW Territories Geological Survey which will support two MSc students in an investigation of the gold mineralization of the Indin Lake belt. Through this collaboration, \$80,000 from the partners and \$160,000 from NSERC will allow the students to characterize the mineralization at the Colomac and Goldcrest deposits and investigate the rocks of the Indin Lake Supracrustal Belt.

Exciting New Research Chair



CESME has been instrumental in securing a commitment from Green Technologies Metals to support a NOHFC Industrial Research Chair in Critical Minerals Processing. This significant contribution of \$75,000 per year for five years will allow Lakehead to establish a new Chair in the Faculty of Engineering, enhancing the University's role as a hub for research in this field.



← **SCAN ME**

to learn more about
CESME or visit YouTube at
youtu.be/txUZL_gBuZU



Lakehead
UNIVERSITY

Sincere Gratitude to Our Donors

Philanthropy Impacts Student's Futures

The past year has seen some wonderfully generous gifts from philanthropists to help support the work of CESME, the Geology Department at Lakehead and our Masters and Postdoctoral students.

Phil Walford (Geology Class of '70) donated \$25,000 to the Dr. Melville Bartley CESME Memorial Scholarship that provides financial support to graduate students undertaking research into mining, exploration and the environment. Since its establishment in 2015, this scholarship has supported 6 students across a range of disciplines awarding over \$18,000 in total.

This year, the Dr. Melville Bartley Memorial CESME Award received an anonymous gift of \$10,000. The fund was originally established through donations from Phil and Dr. Jim Franklin, and this ongoing support will ensure the award continues to support our

students for years to come. The amazing generosity from our supporters is greatly appreciated!



The Geology Department was thrilled to receive a generous \$25,000 donation to create the Jim Bond Geology Fund. Jim has been a friend to Lakehead's Geology Department for over 20 years and his gift will facilitate the updating of much-needed research and training tools. Enabling us, over the next five years, to enhance our teaching labs to the benefit of our undergraduate and graduate students.

The Next Generation of Geoscientists



Supporting a student's educational and professional career means Lakehead University graduates entering careers linked to the mining sector will be fully able to support Sustainable and Responsible Resource Development anywhere in the world.

The Centre of Excellence for Sustainable Mining and Exploration (CESME) strives to be a global leader in sustainable

resource development, with the goal of bringing together stakeholders to advance the sustainable development of Northern Ontario.

CESME's 2020 strategic plan identified a number of key goals, including:

- Engagement
- Research Goals
- Educational Partnerships
- Sustainable Growth and Environmental Management
- Build Connections

To learn more about how these goals support Lakehead's commitment to providing students with an exceptional post-secondary education, visit cesme.lakeheadu.ca

Building a Legacy of Support

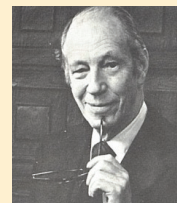
Your generous support to our graduate students prepares them with the knowledge and experience they need to positively impact the mining sector. Your gifts will make a difference for many generations to come.

THE ROBERT MIDDLETON GRADUATE AWARD IN GEOLOGY



This newly endowed award, created in memory of Robert Middleton by family and friends, will be awarded to a high ranking graduate student, entrance or continuing, enrolled in the MSc program in Geology.

DR. MELVILLE BARTLEY MEMORIAL CESME AWARD



Established in 2015 in memory of Dr. Bartley, a prominent Lakehead University pioneer who during his life was awarded the title of Honorary Professor of Geology, Fellow of the University and Lakehead

University's Principal Emeritus. Successful candidates will be undertaking research related to the Mining and Exploration or Environmental pillars of the Centre of Excellence for Sustainable Mining and Exploration.

BERNIE SCHNIEDER'S MEMORIAL AWARD



The Bernie Schnieder's Memorial Award was established in 2006 to honour Bernie's memory and support graduate students working on projects related to economic geology. Over

the years, the fund has grown thanks to the generosity of its many donors and now supports two MSc students, each working on projects related to economic geology.



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