

CENTRE OF EXCELLENCE
FOR SUSTAINABLE MINING
& EXPLORATION (CESME)

DIRECTOR'S REPORT



It's been another busy year for CESME as we continue to advance our goals of facilitating sustainable resource development in the Northern Ontario mining industry. We have continued to reach out to local mines to introduce them to Lakehead researchers through our Lakehead University 'Discovery Days'.

We have also been busy helping to establish the NOHFC Industrial Research Chair in Critical Minerals Processing that is being supported by Green Technology Metals, and the new Canada Research Chair in Critical Minerals. The addition of these two positions to the mining-focused research team at Lakehead University represents a significant increase in our capacity and reflects our growing importance as a hub for critical minerals research.

We are working with the Lakehead District School Board in Thunder Bay, and the Simcoe and Simcoe-Muskoka School Boards in the Orillia area to find ways to promote geology and mining to the next generation, mostly targeting the Grade 9 geology curriculum.

We have also been supporting short courses hosted by the Lakehead's Society for Economic Geologists (SEG) Student Chapter which have included VMS systems taught by Dr. Bruce Gemmel and the hugely successful Lithium short course that brought together a diverse range of speakers.



Mark Your Calendar! We are very excited to be hosting the International Ni-Cu Symposium that will be held in Thunder Bay this August. We anticipate welcoming 150 to 200 of the world's leading geo-scientists to Lakehead University for three days of technical sessions and field trips. Scan the QR code for more information.



CANADA
RESEARCH CHAIRS
CHAIRES DE
RECHERCHE DU
CANADA



International Ni-Cu Symposium
Thunder Bay 2024

PARTNERING TOWARDS
DISCOVERY

▲ Wyloo's Ring of Fire exploration camp at the Esker Site

We continue to develop research partnerships with the mining industry. A new partnership with Wyloo Metals will see two Masters of Science students and a Postdoctoral Fellow working on their deposits in the Ring of Fire. A total of \$180,000 from Wyloo Metals has been matched by \$360,000 from an NSERC Alliance Grant to support the research.



Field work began last Fall with Lakehead University supervisors Dr. Noah Phillips and Dr. Pete Hollings, spending time on site with the first Master of Science student, Vlad Sheshnev, who is investigating the Eagle's Nest deposit and the Postdoctoral Fellow, Moses Angombe, who will be working on unravelling the structural geology of the area.

Hollings and Phillips have also secured a grant from the Ontario Research Fund – Research Excellence Program. This project, "Finding the Next Mine: Developing new deposit models to enhance exploration in Northern Ontario" was able to leverage a number of our industry partnerships to secure \$2 Million in new funding to support our research activities in the northwest.

This grant would not have been possible without the support of our partners including, Clean Air Metals, Romios, Enersoft Inc., Wesdome, Generation PGE, Goldshore Resources, and Impala Canada. We look forward to continuing to work with them over the next few years.



← SCAN ME

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

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Supporting the Future of Sustainable Mining



▲ Northisle property in Vancouver Island BC, L to R: Thomas Mulja (LU grad), Chase Turner and Luis Zapp (current MSc students), Pat Hamilton (LU grad), Pete Hollings and Brett La Peare (LU grad)

THE NEXT GENERATION OF GEOSCIENTISTS

For the more than 50 years that the Department of Geology has been training geoscientists, our graduates have a strong track record of finding success in industry, government and academia. This is reflected by the number of Lakehead graduates working for major mining companies such as Cam McCuaig and Joel Hrominchuk at BHP, and Roisin Kyne at Teck Resources Limited.

Lakehead graduates are also working for government surveys including Marc Rinne in Manitoba; Justin Jonsson, Rob Cundari, Greg Paju, Dorothy Campbell and Sophie Churchley in Ontario – to name a few, and in the world of academia Peir Pufahl at Queens University. Not to mention the many, many graduates to be found working with Junior Miners.

We continue this tradition today by working closely with local companies to provide our students with experiential learning opportunities through summer placements with local companies and by helping them find jobs when they graduate. We are very proud of our Alumni working in the industry and partnering with Lakehead to train the next generation of students.

Feedback suggests that we continue to train students who are highly valued by the mining industry, and we would encourage you to reach out when you next think about hiring!

SINCERE GRATITUDE TO OUR LAKEHEAD DONORS

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.

2022-2023 AWARD RECIPIENTS

DR. MELVILLE BARTLEY MEMORIAL CESME AWARD



Jordan Peterzon, MSc (Geology)

“This award provides me with some relief from the financial burden of the present and upcoming school year. As students, we often experience financial hardship which can cause immense stress. This award allows me to support myself financially while focusing on my studies and MSc thesis.”



Michael Nwakanma, MSc (Geology)

“I was born and raised in Nigeria, worked in the exploration industry in Nigeria, and developed a massive interest in geological research which led me to seek opportunities in a country such as Canada that is well known to be at the forefront of geological research. Studying at Lakehead has been a great experience in terms of research – they are world-class!”

BERNIE SCHNEIDERS MEMORIAL AWARD



Dan Thomson, MSc (Geology)

“Receiving this award has taken a burden off my shoulders and helped me to focus on my studies and research. I am entering my 2nd year of studies for my master’s degree looking at VMS deposits in Northern Ontario. I came to Lakehead University to get hands-on experience with mineral deposits, and I loved how its master’s research programs are closely linked to industry. I feel very lucky to have the opportunity to continue to pursue higher education here.”

Jordan Peterzon, MSc (Geology)

JOHN R. CRAIG MEMORIAL CESME AWARD



James Wood, MSc (Biology)

“I am currently in the 2nd year of my master’s thesis at Lakehead University completing my work on the impacts of invasive species on mercury accumulation in fish, which I hope to complete this summer. I believe that my research findings will support positive change and assist in enabling sustainable resource management in Northern Ontario. After graduating I hope to continue into a career field of environmental research and sustainability.”

ROBERT MIDDLETON GRADUATE AWARD IN GEOLOGY

This recently established 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.



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← **SCAN ME**

to donate to student awards or visit:
ec.lakeheadu.ca/giving/fund-project

To support CESME awards, contact:

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