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LUMINX

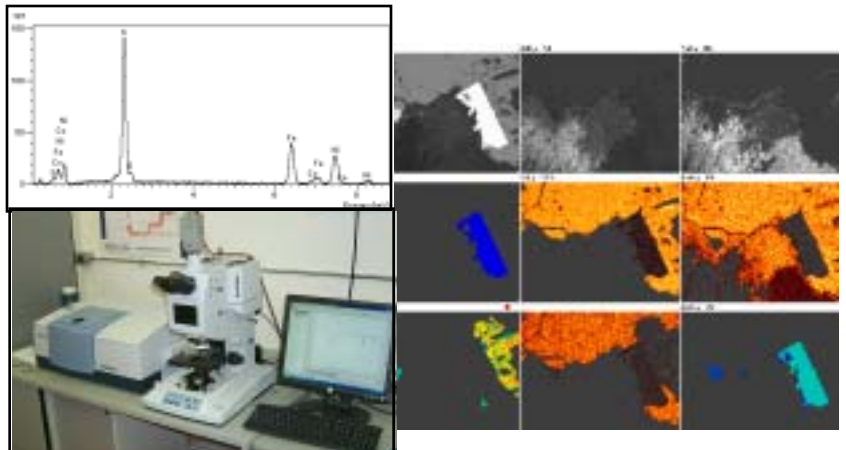
Lakehead University
Mineralogical
& Experimental
Laboratory

MINERALOGY AND RESEARCH SERVICES

LAKEHEAD UNIVERSITY CENTRE FOR ANALYTICAL SERVICES

A bridge between the minerals industry and Lakehead University researchers

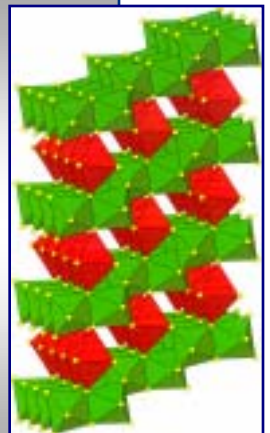
LUMINX is designed to serve as a bridge between the minerals industry and university researchers by providing advanced mineralogical (and geochemical) services that are not routinely available from commercial firms. LUMINX seeks to promote and develop mineralogy-based research in the north, as well as keeping industrial-based funding and highly qualified personnel in northwestern Ontario.



MINERALOGY SERVICES

LUMINX will offer applied mineralogical and geochemical services on a contractual basis.

- ☒ Thin section preparation
- ☒ Mineralogical/petrographic assessment of geological samples
- ☒ Characterization of Au- and PGE-bearing phases, sulphides and diamond indicator minerals
- ☒ Fluid inclusion petrography and microthermometry
- ☒ Quantitative or qualitative phase and chemical composition analysis of geological samples and industrial by-products
- ☒ Solubility testing of natural and synthetic materials
- ☒ Sequential extraction geochemistry (done in part through the Lakehead University Environmental Laboratory)
- ☒ Stable isotope studies (analyses provided through associate laboratories)



www.lucas.lakeheadu.ca

Lakehead University technologies at work for you

Lakehead

UNIVERSITY

FACILITIES

- ☒ Bruker Tensor FTIR and IR-Microscope
- ☒ JEOL 5900LV SEM/Oxford Link EDXA
- ☒ Philips 3710 XRD
- ☒ Bruker EVA Search Software
- ☒ Bruker Topaz Reitveld Software
- ☒ Geochemical Preparation Laboratory
- ☒ Hydrothermal Rocking Autoclave and Rapid-Quench Cold-Seal Autoclaves
- ☒ Fluid inclusion-micro analytical facility in the Geology Department includes Olympus BX2M microscopes and a Linkham MDS 600 motorized stage system.



LAKEHEAD UNIVERSITY CENTRE FOR ANALYTICAL SERVICES

LUMINX is managed by Dr. Andrew Conly, who was recruited by Lakehead University in 2003 in order to provide strong research and teaching presence in mineral deposit geology, aqueous fluid and isotope geochemistry and environmental mineralogy/geochemistry, so as to maintain the Department of Geology's strong track record of research in the Canadian Shield and to expand its capacity in applied mineralogy and geochemistry. Dr. Conly research is in the general area of water-rock interactions, in which he attempts to characterize mineralogical and chemical changes resulting from water-rock interactions in order to constrain the reaction processes

and pathways. Dr. Conly's research integrates natural systems with water-rock reaction experiments.

Dr. Conly is a well-respected geologist within the mineral resource community, having worked as a contract geologist and through his activities in professional organizations, which has including serving on the member of the Board of

Directors for the Geology Society of the Canadian Institute of Mining and Metallurgy (2003 to 2006) and he is a

former member of the Executive Council, including a term as Chairman, of the Mineral Deposits Division of the Geological Association of Canada (1999-2001).

In addition to providing valuable services to the mining and exploration sectors, LUMINX also extends its services to environmental assessment and mine site remediation studies. Currently, Dr. Conly is working with Dr. Peter Lee, Director the Lakehead University Environmental Laboratory, to study the impacts of effluents from pit lakes.

Also joining the LUMINX team is Dr. Roger H. Mitchell; one of Canada's leading mineralogist, a world expert on the petrology and mineralogy of diamond-bearing rocks, and recipient of the Willet G. Miller Medal from geology. Ms. Parisa Sattari (M.Sc.) will be providing the petrographic and fluid inclusion services.

