



David Benn

University of Western Ontario

Evaluating Muscovite as an indicator mineral for lithium bearing pegmatites, Wekusko Lake, central Manitoba

ABSTRACT

The Wekusko Lake pegmatite field near Snow Lake, Manitoba is a good example of a group of pegmatites with lithium mineralization, particularly the bodies from the Green Bay group. These pegmatites have been the target of exploration by Far Resources in the last few years and more recently a research project involving Western University and the Manitoba geological Survey. This area offers an excellent opportunity to investigate new exploration techniques for Li pegmatites. The aim of this project is to test if muscovite shows potential as an indicator mineral for locating zones of high Li concentrations in mineralized pegmatites using portable Raman spectrometry (a non-destructive technique). During this talk, we will describe in detail the zonation of the pegmatites, their distribution and implications for a better understanding of the regional geology of the area. We will also present preliminary results on the use of portable Raman techniques.

BIOGRAPHY

David Benn received his (Honors) Bachelor of Science with specialization in geology from the University of Ottawa. He worked in geophysical surveying before joining the University of Western Ontario to work on a Masters degree. His research currently includes pegmatites exploration, mineral geochemistry, and Raman spectroscopy.



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