

## MSc Projects in Geology

### **Gold Mineralisation in the Kakagi-Rowan Lakes greenstone belt.**

The Geology Department at Lakehead University is currently looking for students interested in undertaking a Masters thesis to investigate the nature of gold mineralisation in the Kakagi-Rowan Lakes greenstone belt. recent funding from an NSERC Collaborative Research Grant and support from Houston Lake Mining Inc. has made possible a second study in this area. The successful applicant will work closely with existing MSc student Scott Secord and the staff at Houston Lake mining to investigate the nature of gold mineralisation in the West Cedartree project area. They will gain hands on experience of mineral exploration and may be eligible for employment with Houston Lake Mining.

Suitable candidates will have a strong background in economic geology and should have completed an Honours degree in Geology. Fieldwork in northern Ontario will be an integral component of this project. The project is funded by an NSERC CRD grant. The successful candidate will receive a stipend of CAN\$15,000 p.a. for two years. Candidates may also be eligible to apply for other competitive grants and scholarships. This project can start in May 2008.

### **VMS mineralisation at the Big Lake Property, Northwestern Ontario**

This project will investigate the nature and origin of recently discovered copper-rich volcanogenic massive sulphide (VMS) mineralisation in the Schreiber-Hemlo belt of the Superior Province. The 30km by 500m east-west trending Big Lake Peridotite is located 30km southeast of Marathon, Ontario. The intrusion cross-cuts mafic metavolcanic rocks of the Schreiber-Hemlo greenstone belt, and comprises laterally continuous sequences of serpentinized and talcose peridotite, pyroxenite, and gabbro. The eastern 1.5km of the peridotite is host to a stratabound or reef-style PGE dominant sulphide system. The Big Lake VMS deposit borders its PGE-mineralized eastern margin, with a mineralized metavolcanic and metasedimentary breccia footwall. Recent exploration in the area has resulted in ~50 drill cores, all available for study, allowing for the generation of 3-D models of the mineralization.

The successful applicant will work closely with MetalCORP geologists and other graduate students working on the property. They will gain hands on experience of mineral exploration and may be eligible for summer employment with MetalCORP. The candidate will also have the opportunity to receive training in GIS applications including GoCAD, Leapfrog and MapInfo. Suitable candidates will have a strong background in economic geology and should have completed an Honours degree in Geology. A background in GIS software is preferred, but all necessary training will be provided. Fieldwork in northern Ontario will be an integral component of this project. This project will start in the summer of 2008.