

MIN UPDATE

The Lassonde Mineral Engineering Program continues its exciting renaissance. This year, we're welcoming our new Associate Director, Prof. John Harrison.

Professor Harrison joined the Department of Civil Engineering and the Lassonde Mineral Engineering Program in October 2010 from Imperial College, UK, as the Keck Chair.

His area of expertise is in Engineering Rock Mechanics. His main research interests are in the areas of mechanics and geometry of fractured rock masses, particularly in relation to engineering design.

A UK Chartered Civil Engineer, Professor Harrison has published many scientific papers, books and book chapters, and regularly acts as a consultant to the civil, mining and petroleum engineering sectors.



Prof. John Harrison.

At Geology Field Camp, students will learn to incorporate geological observations into their engineering data sets.

The course will focus on the recognition of rock types in the field, mapping of geological structures related to mineralization of potential economic importance, and field measurement techniques for obtaining rock engineering data.

Students will learn how to make geological observations that are of critical importance to their success as mineral engineers, and to foster a sense of excitement and curiosity about the rocks that form the physical environment within which they will work as professionals. ♦

New Field Course

Alumni of the Lassonde Mineral Engineering Program will remember the choice they had in completing the Fourth Year Geology Field Camp.

While this program was useful and interesting for students, we wanted a "made-in-MIN" solution that would cater specifically to the needs of mineral engineers.

Starting this year, we're launching a new course, MIN400 - Geology Field Camp for Mineral Engineers.



Featured Volunteer

FABIAN PAPA (CIV9T5)

Fabian Papa has been a dedicated volunteer since his U of T civil engineering student days in the mid-1990s. Even while taking on a growing career, he has generously given his time to the Faculty of Applied Science and Engineering as an industry

expert, guest lecturer and course and program consultant. He has also assisted in the publication of a textbook and several university-edited academic journals and has recently become an executive member of the Engineering Alumni Association.

FIELD NOTES:

GOLDCORP RED LAKE

By James Sproul (MIN1T3)

The annual field trip for second year Lassonde Mineral Engineering students took place from November 8th to 10th, 2010.

It was a great first exposure to the mining industry.

We travelled to Goldcorp's Red Lake Gold Mines in Red Lake, Ontario. The mine is one of the world's richest gold mines, with an average 2 troy ounces per ton, mined at 635 tons per day.

Our group was divided in two, with the first going to the Campbell Complex and the second going to the Red Lake Complex.

Both groups were underground for a few hours, where we were able to take the vocabulary and theory learned in our class, and connect it to real life examples.

At the RedLake Complex, two of

our tour guides were graduates of the Lassonde Mineral Engineering program.

They took us down to the bottom level of the shaft (6300ft or 1890m deep). Some things that we were shown include drills, explosives, mining vehicles, mechanical shops, a refuge station, and gold!

After lunch, both groups met up and went to the mill. Here we saw the processing of the mined ore. Our guides explained how the gold was separated from the ore by both physical and chemical means.

Overall, the trip was an excellent learning experience, and was a valuable addition to our lecture material. Thank you Goldcorp! 🍀

