

# NORTHWEST COMMUNITY COLLEGE

## SCHOOL OF

# EXPLORATION & MINING

### Introduction to Metal Leaching and Acid Rock Drainage (Field School)

The goal of this long-running field course is to provide a practical understanding of metal leaching and acid rock drainage (ML/ARD), the major environmental and reclamation challenges faced by the mining industry.

ML/ARD is a multi-disciplinary subject, involving a large number of processes, each with demanding information requirements. It is also an applied science, with much of the current knowledge residing in company reports and with leading industry practitioners and regulators. The course will provide a basic understanding of the procedures used to assess and prevent potential ML/ARD impacts. Much of time will be spent touring mines in the Northwest BC area: GoldCorp's Equity Silver mine, Imperial's Huckleberry mine, Xstrata's Bell mine and Silver Standard's Duthie mine. These mines are world leaders in ML/ARD mitigation and the tours will allow participants to observe state of the art ML/ARD practices. Participants will gain experience in how ML/ARD test work is conducted and mitigation plans are developed, and the challenges that are encountered. In addition to the mine tours, ML/ARD practices and the underlying theory will be illustrated using case studies drawn from the instructors experience with mines in Canada and throughout the world.



**Target Audience:** The course is recommended to professional/technical personnel working in the mining industry, regulators, consultants, community members reviewing mines and students in mining/ environmental protection and reclamation.



### Instructors

**Dr. Bill Price**, one of Canada's foremost experts on ML/ARD, is the course organizer. Bill has spent the last fifteen years reviewing mines and is author of the British Columbia and Ontario ML/ARD Guidelines and Manual of Prediction Methods, documents used world-wide.

**Mike Aziz** will lead the Equity Silver tour. Equity has been an industry leader in ARD mitigation with its research on soil cover, underwater disposal and drainage collection. Mike has published widely on methods to minimize ML/ARD risks.

**Ron Robichaud** will lead the tour of the Huckleberry Mine. Huckleberry is a state-of-the-art modern mine site where ARD prediction and prevention are an integral part of the mine plan. Ron is the environmental coordinator at the site and has worked on a wide range of ARD issues.

**Glenda Ferris** will share her experiences as a community member active in ARD review since 1986, assisting industry, government, community and First Nations groups. Glenda is in high demand because of her knowledge and experience. Her contributions include work on the MMSD review.

**Dr. Kevin Morin** along with **Brian Rosendale** will lead the tour of the Bell Mine. Kevin has worked as a consultant for many major mines and mining companies and published widely on ML/ARD, including a compendium of case studies. The ML/ARD program at Bell includes some of the best prediction work in the Province.

### Course Information:

**Dates:** Aug. 30 - Sept. 3, 2010

Aug. 30 8:30am - 4:30pm @ College

Mine Tours include:

Bell Mine  
Huckleberry Mine  
Equity Mine  
Duthie Mine

Departure times for the mine tours will be announced on the first day of the course. Transportation to the mine sites will be provided.

**Location:** Smithers, BC, Canada

**Cost:** \$1600 per person

### Register Today!

Seats are strictly limited, offered on a first come- first serve basis with payment. Fax-in registration forms are available at: [www.nwcc.bc.ca/SEM.cfm](http://www.nwcc.bc.ca/SEM.cfm)

### Northwest Community College

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### Northwest Community College School of Exploration & Mining

*In response to the training needs of industry, Northwest Community College has developed the School of Exploration & Mining. In partnership with Smithers Exploration Group and the Province of BC, the School develops industry-related courses and programs and offers training in various areas of mining and exploration.*

