

ABITIBI 2009 CONVENTION

September 28 - October 2, 2009
Centre des congrès de Rouyn-Noranda

ABITIBI COPPER - FIELD TRIPS

in the richest geological units of the Abitibi in Cu-Zn-Au-Ag and Ni-Cu
(Blake River, Kidd-Munro, Malartic)

FIELD TRIP 1A – September 30, 2009
(presented in French)

Overview of the major volcanic units of the Blake River Group and their relation with volcanogenic massive sulphide deposits

Jean Goutier (MRNF), Pierre-Simon Ross (INRS-ETE), Claude Dion (MRNF), Patrick Mercier-Langevin (CGC-Québec) and Vicki McNicoll (CGC-Ottawa)

This day-long excursion will focus on the well preserved volcanic facies and the volcanic assemblages of the major units of the Blake River Group in Quebec. We will visit outcrops that showcase submarine lavas and volcanoclastic deposits ranging in composition from mafic to felsic. We will also observe typical examples of Archean volcanogenic mineralization. A wealth of recent U-Pb geochronological data will allow us to present the temporal evolution of these major volcanic units. The tour will be given mostly in French.

FIELD TRIP 2 – October 1, 2009
(presented in English)

New insights on the stratigraphy of the eastern part of the Kidd-Munro Assemblage, Ontario

Michel Houlié (OGS), Ben Berger (OGS), Sonia Préfontaine (OGS, MERC-Laurentian U.), John Ayer (OGS)

This day-long excursion will focus on the stratigraphy of the Kidd-Munro assemblage (KMA) and its implications for base metal exploration. We will visit the Potter Cu-Zn VMS deposit, hosted in a mafic volcanoclastic unit within a komatiitic volcanic succession to observe its unique setting and characteristics and to contrast them with more typical VMS deposits occurring in the Blake River assemblage. We will stop in the field to illustrate critical aspects of the felsic, mafic and ultramafic volcanic rocks in Munro Township associated along strike with KMA base metal deposits such as the Kidd-Creek mine and the Alexo komatiite-associated Ni-Cu deposit. Discussions will focus on the key features to consider when exploring for Cu-Zn VMS and Ni-Cu mineralization in the KMA and elsewhere in the Abitibi. Emphasis will be placed on the KMA stratigraphy and subvolcanic-volcanic architecture of the successions hosting mineralization.

FIELD TRIP 1B – September 30, 2009
(secteurs Horne in English and Bousquet in French)

Giant volcanogenic massive sulphide deposits of the Blake River Group (Horne and LaRonde Penna): Current knowledge and implications for exploration

Patrick Mercier-Langevin (CGC-Québec), Thomas Monecke (Colorado School of Mines, CGC-Ottawa), Benoît Dubé (CGC-Québec), Harold Gibson (Laurentian U.), Mark Hannington (Université d'Ottawa), Vicki McNicoll (CGC-Ottawa) and Jean Goutier (MRNF)

This day-long excursion will be entirely dedicated to the metallogeny of volcanogenic massive sulphide deposits (VMS) of the Blake River Group. We will visit giant deposits at Horne (Noranda camp) and LaRonde Penna (Doyon-Bousquet-LaRonde camp) and discuss their formation environment. We will stop in the field to illustrate some of the critical geological aspects in the formation of Au-rich VMS deposits of the Blake River Group and discuss key features to consider when exploring for these types of deposits in Abitibi and elsewhere. We will emphasize, among others things, the volcanic facies architecture of the volcanic centers hosting the giant VMS deposits.

FIELD TRIP 3 – October 2, 2009
(presented in French)

Geology and new correlations in the western part of the Malartic and Kinojévis groups, Québec

Pierre Pilote (MRNF), Vicki McNicoll (CGC-Ottawa), Réal Daigneault (UQAC) and James Moorhead (MRNF)

This day-long excursion will examine the geology and mineral potential of the Malartic and Kinojévis groups, of ultramafic to felsic composition. New U-Pb geochronology has enabled felsic volcanic rocks aged between 2719 and 2716 Ma to be identified, *i.e.* contemporaneous with the Kidd-Munro Assemblage in Ontario. Several intrusive episodes have also been discriminated. Major regional faults such as La Pause, Manneville, and Aiguebelle, oriented E-W and NW-SE, play an important role (i) by controlling continuity of the stratigraphic units; (ii) by marking the margins of the younger sedimentary units; (iii) by controlling successive increments of regional deformation; and (iv) by displaying a high mineral potential. Representative outcrops of volcanic and structural phenomena, together with the various mineralization contexts, will be visited and discussed.

Register now – Places are limited

The registration form is available at www.mrnf.gouv.qc.ca/english/mines/quebec-mines/index.asp

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