

SEG Foundation Student Field Trip No. 13

ARCHEAN BASE AND PRECIOUS METAL DEPOSITS, SOUTHERN ABITIBI GREENSTONE BELT, CANADA

September 3 – 11, 2014

— Selected References —

Deposit models and Abitibi geology

- Franklin, J.M., Gibson, H.L., Jonasson, I.R., and Galley, A.G., 2005, Volcanogenic massive sulfide deposits: Economic Geology 100th Anniversary Volume, p. 523-560.
- Gibson, H.L., Morton, R.L., and Hudak, G.J., 1999, Submarine volcanic processes, deposits, and environments favorable for the location of volcanic-associated massive sulfide deposits: Reviews in Economic Geology, v. 8, p. 13-51.
- Goldfarb, R.J., Baker, T., Dubé, B., Groves, D.I., Hart, C.J.R., and Gosselin, P., 2005, Distribution, character, and genesis of gold deposits in metamorphic terranes: Economic Geology 100th Anniversary Volume, p. 407-450.
- Robert, F., Poulsen, K.H., Cassidy, K.F., and Hodgson, C.J., 2005, Gold metallogeny of the Superior and Yilgarn Cratons: Economic Geology 100th Anniversary Volume, p. 1001-1033.
- Thurston, P.C., Ayer, J.A., Goutier, J., and Hamilton, M.A., 2008, Depositional gaps in Abitibi greenstone belt stratigraphy: A key to exploration for syngenetic mineralization: Economic Geology, v. 103, p. 1097-1134.

Site specific papers

- Bateman, R., Ayer, J.A., and Dubé, B., 2008, The Timmins-Porcupine gold camp, Ontario: Anatomy of an Archean greenstone belt and ontogeny of gold mineralization: Economic Geology, v. 103, p. 1285-1308.
- Dubé, B., Mercier-Langevin, P., Hannington, M., Lafrance, B., Gosselin, G., and Gosselin, P., 2007, The LaRonde Penna world-class Au-rich volcanogenic massive sulfide deposit, Abitibi, Québec: Mineralogy and geochemistry of alteration and implications for genesis and exploration: Economic Geology, v. 102, p. 633-666.
- Gibson, H.L., and Galley, A.G., 2007, Volcanogenic massive sulphide deposits of the Archean, Noranda District, Quebec, in Goodfellow, W.D., ed., Mineral deposits of Canada: A synthesis of major deposit-types, district metallogeny, the evolution of geological provinces, and exploration methods, Special Publication No. 5, Mineral Deposits Division, Geological Association of Canada, p. 533-552.
- Hannington, M.D., Bleeker, W., and Kjarsgaard, I., 1999, Sulfide mineralogy, geochemistry, and ore genesis of the Kidd Creek deposit: Part I. North, central, and south orebodies: Economic Geology Monograph, v. 10, p. 163-224.

- Helt, K.M., Williams-Jones, A.E., Clark, J.R., Wing, B.A., and Wares, R.P., 2014, Constraints on the genesis of the Archean oxidized intrusion-related Canadian Malartic gold deposit, Quebec, Canada: *Economic Geology*, v. 109, p. 713-735.
- Ispolatov, V., Lafrance, B., Dubé, B., Creaser, R., and Hamilton, M., 2008, Geologic and structural setting of gold mineralization in the Kirkland Lake-Larder Lake gold belt, Ontario: *Economic Geology*, v. 103, p. 1309-1340.
- Mercier-Langevin, P., Dubé, B., Hannington, M.D., Davis, D.W., Lafrance, B., and Gosselin, G., 2007, The LaRonde Penna Au-rich volcanogenic massive sulfide deposit, Abitibi greenstone belt, Quebec: Part I. Geology and geochronology: *Economic Geology*, v. 102, p. 585-609.
- Mercier-Langevin, P., Dubé, B., Hannington, M.D., Richer-Lafleche, M., and Gosselin, G., 2007, The LaRonde Penna Au-rich volcanogenic massive sulfide deposit, Abitibi greenstone belt, Quebec: Part II. Lithogeochemistry and paleotectonic setting: *Economic Geology*, v. 102, p. 611-631.