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Teaching:

GEOL 4442: Economic Mineral Deposits

GEOL 4441: Mineral Resources

GEOL 3312: Igneous Petrology

Summary of current interests:

Igneous petrology; geochemistry; use of basement geochemical signatures in terrane analysis; study of komatiites and related rocks; Mesozoic and Cenozoic volcanism of the Canadian Cordillera.

Refereed publications:

Dostal, J., Keppie, J.D., Jutras, P., Miller, B.V. and Murphy, J.B. 2006. Evidence for the granulite-granite connection: penecontemporaneous high-grade metamorphism, granite magmatism and core complex development in the Liscomb Complex, Nova Scotia, Canada. *Lithos*, 86, 77-90.

Nance, R.D., Miller, B.V., Keppie, J.D., Murphy, J.B. and Dostal, J. 2006. Comments on "U-Pb geochronology of the Acatlan Complex and implications for the Paleozoic paleogeography and tectonic evolution of southern Mexico". *Earth and Planetary Science Letters*, 245, 471-475.

- Jutras, P., MacRae, A., Owen, J.V., Dostal, J., Préda, M. and Prichonnet, G. 2006. Evidence for carbonate melting and peperite formation at the intrusive contact between large mafic dykes and clastic sediments of the upper Paleozoic Saint-Jules Formation, New-Carlisle, Quebec. *Geological Journal*, 41, 23-48.
- Keppie, J.D., Dostal, J., Miller, B.V., Ortega-Rivera, A., Roldán-Quintana, J. and Lee, J.W.K. 2006. Geochronology and geochemistry of the Francisco Gneiss: Triassic continental rift tholeiites on the Mexican margin of Pangea, metamorphosed and exhumed in a Tertiary core complex. *International Geology Review*, 48, 1-16.
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- Murphy, J.B. and Dostal, J. 2006. Continental mafic magmatism of different ages in the same terrane: Constraints on the evolution of an enriched mantle. *Geology* (in press).
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- Murphy, J.B., Keppie, J.D., Nance, R.D., Miller, B.V., Dostal, J., Middleton, M., Fernandez-Suarez, J. and Jeffries, T.E. 2006. Geochemistry and U-Pb protolith ages of eclogitic rocks of the Asis Lithodeme, Piaxtla Group, Acatlan Complex, southern Mexico: Cambro-Ordovician rift-passive margin sequence cut by Ordovician rift or arc granitoids on the southern margin of the Rheic Ocean. *Journal of Geological Society, London*, 163, 683-695.
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