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February 12, 1974

John Heslop
Department of Geology
Carleton University
Ottawa, Ontario.

Dear John,

I'm going to Leeds University to do a Ph. D. based around fabric analysis of sulphides using an x-ray goniometer. The Faro deposit is an obvious choice for study material and it seems that Cyprus-Anvil may want the pit map brought up to date - hence I may spend a couple of months this summer up there. The sort of thing I'd like to try and do is to relate sulphide textures and fabrics to those in the silicate host rocks in a fair degree of detail i. e. sampling mesoscopic structures of the various generations. My mapping on the northside of the batholith is in good agreement with yours and Dave's so I have the background knowledge - the one exception is perhaps the relative timing of D_3 and D_4 structures. On the basis of orientations and style of deformation I would think that D_4 was a waning stage of D_2, whereas D_3 and D_5 structures have something in common. I have not seen any interference between D_3 and D_4 structures that would resolve this, but I understand that you and Dave found S_3 crenulation foliations affected by D_4?

What I am really writing about is to ask how much structure you will include in your thesis - I gathered that it was primarily a study of chemical variation? If you could send me a copy of your structural discussion I'd be happy to reimburse you for any xeroxing expenses, etc. Hopefully there is still enough room for another thesis with a detailed structural bias,

Yours,

PFL/bh

Peter Lewis