

John H. Dilles

Professor of Geology, Mineral Resour. (PhD Stanford 1984)

Teaching: Mineralogy (GEO310); Advanced Field Geology (GEO495); Field Mapping of Ore Deposits (GEO597); Economic Geology (GEO440/540); Map Interpretation (GEO516)

Research Interests:

Petrology & geochemistry of ore magmas, & genesis of magmatic-hydrothermal fluids

Hydrothermal alteration & stable isotopes (O, H, & S)

Field & structural geology (esp. normal faulting)

Isotopic ages, especially U/Pb zircon

Recent Publications:

Dilles, J.H. and Stephens, A., 2011, Age and geology of the Jurassic Lights Creek copper district, California: An Fe-oxide copper gold association: *Geol. Soc. of Nevada, 2010 Symposium Vol.*, p. 313-324.

Longo, A.A., Dilles, J.H., Grunder, A.L., & Duncan, R., 2010, Evolution of calc-alkaline volcanism and associated hydrothermal gold deposits at Yanacocha, Perú: *Economic Geology*, v. 105, p. 1191-1241 plus map.

Tosdal, R.M., Dilles, J.H., and Cooke, D.R., 2009, From source to sinks in auriferous magmatic-hydrothermal porphyry and epithermal deposits: *Elements*, v. 5, p. 289-295. doi: 10.2113/gselements.5.5.289.

Chambefort, I., Dilles, J.H., and Kent, J.R., 2008, Anhydrite-bearing andesite and dacite as a source for sulfur in magmatic-hydrothermal mineral deposits: *Geology*, vol. 36, p. 719-722.



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