## **GOLD NUGGETS**

## Placer gold and the behavior of gold in the supergene environment

## Reference List Odin Christensen March 2014

Andrade, W.O., Machesky, M.L., and Rose, A.W., 1991. Gold distribution and mobility in the surficial environment, Carajas region, Brazil. Journal of Geochemical Exploration, 40, pp. 95-114.

Bertoni, C.H., Shaw, R.P., Singh, R. Minamoto, J. Richards, J.M., and Belzile, E., 1991. Geology and gold mineralization of the Omai property, Guyana. *In* Ladeira, E.A. (editor) Brazil Gold '91. Rotterdam, Balkema, pp. 767-771.

Best, M.G., Barr, D.L., Christiansen, E.H., Gromme, S., Deino, A.L., and Tingey, D.G., 2009. The Great Basin altiplano during the middle Cenozoic ignimbrite flareup: insights from volcanic rocks. International Geology Review, 51, pp. 589-633.

Bowell, R.J., 1992. Supergene gold mineralogy at Ashanti, Ghana: Implications for the supergene behavior of gold. Mineralogy Magazine, 56, pp. 545-560.

Bowell, R.J., Foster, R.P., Gize, A.P., Hoppis, H.A., Lafoley, N. d'A., and Rex, A.J. 1991. Mineralogy and chemical characteristics of a tropical weathering profile in Ghana: Implications for gold exploration. *In* Ladeira, E.A. (editor) Brazil Gold '91. Rotterdam, Balkema, pp. 713-719.

Boyle, R.W., 1979. The Geochemistry of Gold and Its Deposits. Geological Survey of Canada Bulletin 280. 584 pages.

Butt, C. R. M. 1988. Genesis of supergene gold deposits in the lateritic regolith of the Yilgarn Block, Western Australia. *The geology of gold deposits: the perspective in 1988*, Economic Geology Monograph 6, pp. 460-470.

Butt, C.R.M., 1998. Supergene gold deposits. Journal of Australian Geology & Geophysics, 17, pp. 89-96

Butt, C.R.M., 2004. Understanding the regolith in tropical and sub-tropical terrains: the key to exploration under cover, *in* Predictive Mineral Discovery Under Cover: SEG Conference, Perth Australia, pp. 74-78

Butt, C.R.M., Lintern, M.J., and Anand, R.R., 1997. Evolution of regoliths and landscapes in deeply weathered terrain – implications for geochemical exploration, *in* Gubins, A.G. (editor) Proceedings of Exploration 97: Fourth Decennial International Conference on Mineral Exploration, pp. 323-334.

Cassell, E.J., Graham, S.A., Chamberlain, C.P., and Henry, C.D., 2012. Early Cenozoic topography, morphology, and tectonics of the northern Sierra Nevada and western Basin and Range. Geosphere, v.8, pp. 229-249.

Clough, D.M. and Craw, D., 1989. Authigenic gold-marcasite association: evidence for nugget growth by chemical accretion in fluvial gravels, Southland, New Zealand. Economic Geology, v. 84, pp. 953-958.

Colin, F., Brimhall, G.H., Nahon, D., Lewis, C.J., Baronnet, A., and Danti, K., 1992. Equatorial rain forest lateritic mantles: A geomembrane filter. Geology, 20, pp. 523-526.

Colussus Minerals Inc., 2013. Serrra Pelada: Building Brazil's next gold mine. Corporate presentation. 52 pages. www.colussus minerals.com

De Oliveira, S.M.B., and Campos, E.G., 1991. Gold-bearing iron duricrust in Central Brazil. Journal of Geochemical Exploration, 41, pp. 309-323.

Evans, D.L.C., 1981. Laterization as a possible contributor to gold placers. E&MJ, August 1981, pp 86-90.

Freyssinet, P., 1993. Gold dispersion related to ferricrete pedogenesis in South Mali: application to geochemical exploration. Chronique de la Recharge Miniere, 510, pp 25-40.

Freyssinet, P., 1994. Gold mass balance in lateritic profiles from savanna and rain forest zones. Catena, 21, pp. 159-172.

Freysinnet, P. and Itard, Y. 1997. Geochemical mass balance of gold under various tropical weathering conditions: application to exploration. *in* Gubins, A.G. (editor) Proceedings of Exploration 97: Fourth Decennial International Conference on Mineral Exploration, pp. 347-354..

Garside, L.J., Henry, C.D., Faulds, H.E., and Hinz, N.H., 2005. The upper reaches of the Sierra Nevada auriferous gold channels, California and Nevada, *in* Rhoden, H.N., Steininger, R.C., and Vikre, P.G., (editors), Geological Society of Nevada Symposium 2005, Window to the World, Reno, NV. pp 1-27.

Gayer, R. and Rickard, D., 1994. Colloform gold in coal from southern Wales. Geology, 22, pp. 35-38.

Greffie, C., Beneditte, M.F., Parron, C., and Amouric, M., 1996. Gold and iron oxide associations under supergene conditions: An experimental approach. Geochimica et Cosmochimica Acta, 60, 1531-1542.

Grimm, B., and Friedrich, G., 1991. Precipitation and concentration of gold in colluvial soils in the semiarid region of Gentio do Ouro, central Bahia, Brazil. *In* Ladeira, E.A. (editor) Brazil Gold '91. Rotterdam, Balkema, pp. 343-350.

Hocquard, C., Zeegers, H., and Freyssinet, P., 1993. Supergene gold: an approach to economic geology. Chronique de la Richarde Miniere, 510, pp. 3-11.

Jaireth, S., 1994. Transport of gold and silver in oxygen-saturated fluids and the formation of high-fineness gold in saprolitic supergene environments. Australian Journal of Earth Sciences, 41, pp. 181-189.

Jaireth, S., Foster, R.P., and Stanley C.J., 1991. Hydrothermal precipitation of precious metals on sulfide substrates, *in* Ladeira,, E.A., (editor) Brazil Gold '91, Rotterdam, Balkema, pp. 431-435.

Kothny, E.L., 1991. A review of mechanism for the geochemical transport of precious metals. Explore, 79, pp. 12-13.

Lawrance, L.M. and Griffin, B.J., 1994. Crystal features of supergene gold at Hannan South, Western Australia. Mineralium Deposita, v. 29, pp. 391-398.

Lindgren, W., 1911. The Tertiary Gravels of the Sierra Nevada of California. US Geological Survey Professional Paper 73. 226 pages.

Lovering, T.S., 1934. Geology and ore deposits of the Breckenridge Mining District, Colorado. US Geological Survey Professional Paper 176. 64 pages.

Mann, A.W., 1984. Mobility of gold and silver in lateritic weathering profiles: some observations from Western Australia. Economic Geology, v. 79, pp. 38-49.

Mann, A.W., 1998. Oxidized gold deposits: relationships between oxidation and relative position of the water-table. Australian Journal of Earth Sciences, 45. pp. 97-108.

Moreno, L.I., Dispersion geoquimica en terrenos lateriticos del Distrito Don Mario. Reference?

Ramanaidou, E., Cathelineau, M., Dubessy, J., Le Gleuher, M. and Trescases, J.J., 1991. Gold mobility during hydrothermal and supergene alteration of BIF (Itabirites), Ouro Fino syncline, Brazil. *In* Ladeira, E.A. (editor) Brazil Gold '91. Rotterdam, Balkema, pp. 729-733.

Ransome, F.L., 1911. Geology and ore deposits of the Breckinridge district, Colorado. US Geological Survey Professional Paper 75. 187 pages.

Santosh, M., and Omana, P.K., 1991. Very high purity gold from lateritic weathering profiles of Nilambur, southern India. Geology v. 19, pp. 746-749.

Smith, R.E., Anand, R.R., and Alley. N.E., 1997. Use and implications of paleoweathering surfaces in mineral exploration. *in* Gubins, A.G. (editor) Proceedings of Exploration 97: Fourth Decennial International Conference on Mineral Exploration, pp. 335-346.

Southam, G., Beveridge, T.J., 1994. The in vitro formation of placer gold by bacteria. Geochimica et Cosmochimica Acta, 20, pp. 4527-4530.