

Julius Kruttschnitt Lecture Series

New ideas using a classical approach: applications of volcanic stratigraphy to understanding greenstone belt genesis and mineral exploration

Patrick Hayman

Queensland University of Technology



25th August 2016

4 pm

Mabo Library – building 018, room 002B

Video linked to Cairns Library building B001, room 103

Dr Hayman's research interests are in volcanic reconstructions at both the terrane- and deposit-scale, and he is especially interested in mineral deposits associated with volcanic or magmatic activity, such as volcanogenic massive sulphide deposits (Cu, Pb, Zn, Au), epithermal deposits (Au, Ag), kimberlites (diamonds) and komatiite-hosted deposits (Ni). His research combines traditional field mapping (outcrop and drill core) with other datasets, especially geochemistry and geochronology, as well as textural analysis and geochemical modelling.

Dr Hayman is currently working on a number of research projects, including a stratigraphic study of the Kurnalpi Terrane in Western Australia (Granny Smith mine; Gold Fields), examining controls on the flow of mineralised fluids in a diatreme (Mt Rawdon; Evolution Mining) and testing terrane-scale models for the formation of 2.1 Ga greenstones in West Africa (Burkina Faso) through the WAXI III initiative for which Dr Hayman leads the Volcanology Module.

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