



CENTRAL WEST GEOLOGY TECHNICAL SESSION

Thursday 16th March 2023

Upstairs function room, Lord Anson Hotel
224 Anson Street, Orange

6:00pm for 6.30pm

Join us on Thursday 16th March for a technical presentation by:

Dr Ian Graham

‘Hera – an evolving story after 6 years of UNSW research’

Hera is a metatubidite-hosted polymetallic Au-Zn-Pb-Ag deposit within central NSW. The deposit comprises a number of distinctive lodes with each having a distinct ore and alteration/gangue mineralogy though the ore mostly comprises various mixtures of sphalerite, galena, chalcopyrite, pyrrhotite and relatively common visible gold-electrum. It contained an undepleted resource of 3.6 Mt @ 3.3 g/t Au, 25 g/t Ag, 2.6% Pb and 3.8% Zn. This presentation will be a discussion on our changing views/opinions on the Hera deposit in terms of its stratigraphy and structural evolution; host, gangue and mineralogy and chemistry; geochronology; mineralogical and geochemical vectors to mineralisation and its genesis and evolution including new Ar-Ar dating of cross-cutting granite pegmatite dykes.

Ian Graham received BAppSci (1st class honours) and PhD from University of Technology Sydney (UTS). He was then a Postdoctoral Fellow at the University of Pretoria, South Africa, where he worked on the initial stages of magmatism associated with the Bushveld Complex. Returning to Australia, Ian worked as a research scientist in the Mineralogy and Petrology section of the Australian Museum, Sydney, before his current role as a research and teaching academic at the University of New South Wales, Sydney. He is also a Distinguished Visiting Professor at the China University of Mining and Technology (CUMT).

Drinks and nibbles will be provided before the talk

Optional PYO dinner and drinks after the talk at the Lord Anson Hotel

For more information email CWEDG: cwedg@outlook.com

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