



CENTRAL WEST GEOLOGY TECHNICAL SESSION THURSDAY 18th APRIL 2024

The Long Room, upstairs Hotel Canobolas
248 Summer Street, Orange. 6:00pm for 6.30pm



Doug Kirwin
SEG honorary lecturer

UST's and Magmatic Silica Caps - What do they tell us?

Unidirectional Solidification Textures (USTs) are primary magmatic textures which comprise parallel to sub-parallel bands of crystals, commonly quartz with oriented c-axis terminations. The UST zones are products of rhythmic precipitation of quartz and quartz plus feldspar (or other rock-forming minerals) during periods of fluctuating overpressuring of volatiles and fluids within relatively small cupolas. They occur in a wide variety of intrusion-related mineral deposits and display several textural types. In some instances, magmatic silica carapaces may be developed above USTs zones. The exsolution of a magmatic vapor phase accompanying or following UST formation may serve as an important marker for magmatic-hydrothermal transition processes and the beginning of peak ore precipitation.



Join us for the meeting, drinks, nibbles and dinner.
For more information: cwedg@aig.org.au

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