



**Central West Exploration  
Discussion Group**



## **CENTRAL WEST TECHNICAL MEETING**

**Thursday 19<sup>th</sup> September 2024**

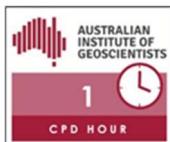
Coachman Hotel, 48 Welcome Street, Parkes  
6pm for 6.30pm

**Dr Lejun Zhang**  
CODES, University of Tasmania

### **'Lithocaps – characteristics, origins and exploration tools'**

Lithocaps, often exceeding 10 km in width and 1 km in thickness, can host or conceal significant porphyry and high-sulfidation epithermal resources. Combining geology, spectral analysis, whole rock geochemistry, and mineral chemistry helps develop effective vectoring tools. This talk will discuss new advances in understanding the genesis of lithocaps and the latest exploration tools.

Dr. Lejun Zhang is a Senior Lecturer in Economic Geology at the Centre for Ore Deposit and Earth Sciences (CODES) at the University of Tasmania. He did his PhD studies on a skarn deposit in the Middle Lower Yangtze belt in China. His research is focused on characterising the geochemical footprints of magmatic-hydrothermal ore deposits, particularly lithocaps and high sulfidation epithermal deposits, and the processes that control element dispersion. He specializes in applying spectral, whole-rock, and alteration mineral chemistry data for enhancing exploration in lithocap environments. He works closely with exploration and mining professionals to develop new exploration tools, exploration models, and to advance the understanding of the formation of ore systems that span across continents, including North America, South America, Europe, Asia, and Australia.



Join us for the meeting, drinks, nibbles and dinner.

*For more information: [cwedg@aig.org.au](mailto:cwedg@aig.org.au)*