



Australian Government
Geoscience Australia



Evolution and Metallogeny of the North Australian Craton
Crowne Plaza Alice Springs, 82 Barrett Dr, Alice Springs
Program

20 June: The evolution of the North Australian Craton and the geology and metallogeny of the Arunta Region and Tennant Inlier

- 8:30-8:45 Opening remarks
8:45-9:15 An overview of the North Australian Craton (I Scrimgeour)
9:15-9:45 The 1880-1780 Ma (Barramundi-Yambah) time window (J Claoue-Long)
9:45-10:15 The 1760-1680 Ma (Strangways-Inkamulla) time window (J Claoue-Long)
10:15-10:45 The 1600-1550 Ma (Chewing) time window (M Hand)
10:45-11:15 *Morning tea*
11:15-11:45 The Warumpi Province (D Close)
11:45-12:15 The 520-300 Ma (Stanovos-Alice Springs) time window (D Maidment)
12:15-12:45 Ar-Ar traverses through the Arunta-Tennant-Tanami regions (G Fraser)
12:45-13:45 *Lunch*
13:45-14:15 Mafic intrusions and Ni-Cu potential of the Northern Territory (T Meixner)
14:15-14:45 Zn-Cu-Pb metallogeny of the eastern Arunta (D Huston)
14:45-15:15 Gold potential of the Arunta (A Wygralak)
15:15-15:45 *Afternoon tea*
15:45-16:15 Iron oxide Cu-Au deposits in the Tennant and Arunta(?) regions (D Huston)
16:15-16:45 Introduction to the geology of the Nolan's Bore REE-P-U deposit (J Goulevitch, Arafura Resources)
16:45-17:15 Uranium potential of the Arunta, Tennant and Tanami regions (I Lambert)

21 June: Tanami geology, metallogeny and seismic survey

- 8:30-9:00 Tanami regional geology (A Crispe)
9:00-9:30 Western Tanami geology and mineralisation (L Bagas)
9:30-10:00 Eastern Tanami mineralisation (T Mernagh)
10:00-10:30 Lithogeochemistry as a tool for stratigraphic correlation and basin analysis (L Lambeck)
10:30-11:00 *Morning tea*
11:00-11:30 3D geology of the Tanami and overview of the seismic proposal (L Vandenberg, T Meixner)
11:30-12:10 Introduction to seismic and its limitations and capabilities (L Jones, B Goleby)
12:10-12:30 An overview of seismic results (D Huston)
12:30-13:30 *Lunch*
13:30-14:10 Line 1 (B Goleby)
14:10-14:40 Line 2 (L Bagas)
14:40-15:10 Line 3 (L Vandenberg)
15:10-15:30 Line 4 (P Lyons)
15:30-16:00 *Afternoon tea*
16:00-16:20 Reprocessed Arunta lines (R Korsch)
16:20-16:50 Synthesis of seismic results (B Goleby)
16:50-17:30 Discussion

22 June: Continental-scale drivers for Palaeo- to Mesoproterozoic mineral systems in Australia

- 9:00-9:40 Geology and mineralisation of the Halls Creek orogen (I Tyler)
9:40-10:00 Geology and geochronology of the Pine Creek orogen (K Worden)
10:00-10:20 Mineralisation in the Pine Creek orogen (M Ahmad, A Wygralak)
10:20-11:00 Geology and mineralisation in the Mt Isa Inlier (P Southgate)
11:00-11:30 *Morning tea*
11:30-12:10 Correlation with other Paleoproterozoic terrains and tectonic setting (G Gibson)
12:00-12:50 Mineral systems and the tectonic evolution of the North Australia Craton (D Huston)
12:50-13:50 *Lunch*
13:50 End of conference