

Gawler Craton 2002: State Of Play Seminar Series

Click the presentation title to view the talk slides

Introduction

- Opening - *Neville Alley (PIRSA)*
- Introduction and welcome - *Paul Heithersay (PIRSA)*

Overview

- Tectonic and geological overview of the Gawler – What we know and what we don't know – *Michael Schwarz (PIRSA)*
- The Gawler Project in Geoscience Australia: Developing a regional framework for discovery of Proterozoic Cu-Au and Archaean Au deposits - *Roger Skirrow (Geoscience Australia)*
- Geochronology and isotope geochemistry of crust forming events, and timing of orogenic events in the Gawler Craton - *Mark Fanning (PRISE)*

Effective exploration through regolith

A method of prioritising exploration targets through the regolith, based on integrated interpretation of AEM, magnetics, geochemistry and geology at Challenger, Tunkillia and Moonta - *Lisa Worrall & Richard Lane (Geoscience Australia)* - **UNAVAILABLE**

Metal dispersion vectors towards Au and Cu mineralisation: new insights from regolith and groundwater chemistry - *David Gray & Lisa Worrall (CRC LEME, Geoscience Australia)* - **UNAVAILABLE**

- Regolith geochemistry, morphology over greenstone's: What works what doesn't - *Malcolm Sheard (CRC LEME, PIRSA)*

Archaean Au

- Challenger Au deposit - *Tony Poustie (Dominion Mining Ltd)*
- Regional geological and event framework for Au exploration in the western Gawler Craton - *Patrick Lyons, Geoff Fraser & Ollie Holm (Geoscience Australia)*

Archaean Greenstone Ni-Cu-PGE potential

- Results and implications of Harris Greenstone Drilling - *Marc Davies (PIRSA)*
- Preliminary assessment of the Ni-Cu-PGE potential of the Harris Greenstone Belt, central Gawler Craton - *Dean Hoatson (Geoscience Australia)*

Archaean Provinces and Tectonic Overview of the Gawler Craton

- Archaean provinces on the Gawler Craton – *Martin Hand (University of Adelaide)*
- Tectonic Overview of the Gawler Craton – *Peter Betts (Monash University)*

Gawler Craton 2002: State Of Play Seminar Series

Click the presentation title to view the talk slides

Targeting Mesoproterozoic Cu & Au ore systems

- Prominent Hill Cu-Au-U prospect - *Tony Belperio (Minotaur Resources)*
- Observable crustal-scale controls on location of hydrothermal activity in the Olympic Cu-Au province, incorporating new interpretations and visualisations of gravity and magnetic data - *Nick Direen, Patrick Lyons & Peter Milligan (Geoscience Australia)*
- Hiltaba Suite magma composition: A regional-scale guide to location of Cu-Au versus Au-only mineralisation - *Anthony Budd (Geoscience Australia)*
- Towards discriminating Cu-Au mineralised from barren hydrothermal systems using fluid chemistry
- *Evgeniy Bastrakov & Roger Skirrow (Geoscience Australia)*
- Alteration vectors to Olympic Dam-style and Ernest Henry-style Cu-Au mineralisation in the Moonta-Wallaroo district - *Ollie Raymond (Geoscience Australia)*

Diamonds, base-metals, heavy minerals and Proterozoic Au

- Diamonds on Flinders Island - *Steven Cooper (Orogenic Exploration)*
- Hall Bay Volcanics - *Graham Teale (Teale and Associates)*
- Heavy minerals in the eastern Eucla Basin - *Baohong Hou (CRC LEME, PIRSA)*
- Barns Au Prospect, central Eyre Peninsula – *Chris Drown (Adelaide Resources)*

Additional Material

MRG POSTERS

- Eucla Basin palaeodrainage and its Australian perspective - *Stoian, L*
- Geoscientific models for the targeting of gold and uranium in the Kingoonya Palaeodrainage System, Gawler Craton, South Australia - *Hou, B & Alley, N*
- Mineral Potential - Harris Greenstone Domain - *Morris, B*
- Sedimentary cover of the Gawler Craton - *Rogers, P*
- Sm-Nd isotopic signatures of the Hiltaba suite - *Schwarz, M*
- Solid geology interpretation of the Harris Greenstone Belt - *Zang, W*
- Tectonic development of the Harris Greenstone Belt - *Zang, W*
- **Core Display Guidebook**