

Uncover Curnamona 2019

The Curnamona Province is a mostly undercover sequence of Proterozoic rocks in South Australia and New South Wales. As well as hosting the Broken Hill ore body, the Curnamona and surrounding provinces are prospective for a wide variety of mineral systems.

23–25 July 2019

Broken Hill

Cost: free

Registration: bit.ly/uncovercurnamona2019

About

Uncover Curnamona 2019 will include presentations, workshops, core viewing and field trips. Details to be circulated soon.

Share information and ideas from current mineral exploration, and from cutting-edge research by geological surveys and collaborative partners including the MinEx CRC and the UNCOVER initiative.

Uncover Curnamona 2019 is a collaboration between the Geological Surveys of New South Wales and South Australia, and the Geological Society of Australia.

Program

Tuesday 23 July

An afternoon of core viewing, and NSW and SA online systems support at the EC Andrews Drillcore Facility, followed by an icebreaker.

Wednesday 24 July

A day of talks at the Broken Hill Civic Centre – a final program will be available in May. Confirmed sessions and speakers with draft titles include:

Session 1 – Uncover Curnamona

Welcome to Broken Hill (Mayor Darriea Turley)

The NSW perspective (Dr Chris Yeats, Geological Survey of NSW)

The South Australian perspective (Rohan Cobcroft, Geological Survey of South Australia)

Keynote – The next Curnamona discovery is under cover... and there are plenty of clues and traces ready for you to follow (Dr Steve Hill, Geoscience Australia)

Session 2 – Characterising the cover

What do you get out of AEM for mineral exploration and other stuff (Dr Ian Roach, Geoscience Australia)

National hydrogeochemistry – how we can help exploration in the Curnamona (Dr Nathan Reid, CSIRO)

Mount Painter region: investigating the Early Cretaceous glaciation also reveals a Devonian hydrothermal event (Stephen Hore, Geological Survey of South Australia)

Session 3 – Lithospheric architecture

New AusLAMP data in NSW (Dr Alison Kirkby, Geoscience Australia)
Lithospheric architecture in the Curnamona from magnetotellurics (Ben Kay, University of Adelaide)

Mapping the crust and mantle using seismology and tomography (Dr Michelle Salmon, The Australian National University)

Session 4 – Distal mineral footprints

National radiogenic isotope signatures (Dr David Huston, Geoscience Australia)

Mapping with multiple data sets (Phil Gilmore, Geological Survey of NSW)

Mantle composition and the links between mineral systems in the Gawler Craton and Curnamona Province (Claire Wade, Geological Survey of South Australia)

Session 5 – 4D geodynamic evolution and metallogenesis

The Delamerian Orogeny (Prof. John Foden, University of Adelaide)

4D geodynamic evolution and mineral systems of eastern South Australia: a plan for the National Drilling Initiative (Stacey Curtis, Geological Survey of South Australia)

Megastructures revealed by regional mapping at Broken Hill (Barney Stevens, Broken Hill Expertise)

Mineral potential mapping in western NSW (Dr John Greenfield, Geological Survey of NSW)

Session 6 – Company exploration projects: geology and exploration rationale

The Copper Blow IOCG Deposit at Broken Hill (Chris Torrey, CTEX Geology)

Conference dinner (own cost, venue TBC)

Thursday 25 July

A one-day field trip to the Mundi Mundi area, to examine basement windows and cover sequence geology in one of the MinEx CRC focus areas.

Contact

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