

GEOSCIENCE and SOCIETY: Geoheritage

THEME COORDINATOR:
Ian Clark

This Session, Convened by Margaret Brocx, will focus on the challenges and opportunities for Geoheritage in Australia.

There are 17 presentations on a wide range of topics, as follows:

- Role of environmental law in protecting geoheritage in Australia;
- Heritage stone: a new geological standard;
- Geological field guides as educational tools for geoconservation;
- A blueprint for Geoheritage, Geoconservation, Geo-education & Geotourism;
- Sedimentation, stratigraphy & middens: linking archaeology & geoheritage;
- Geoheritage & consanguineous wetlands in WA;
- A tool-kit to identify, assess & prioritise sites of geoheritage significance in NSW;
- Small scale geoheritage: bubble sand in beach & tidal deposits;
- Geoheritage significance of soldier crab ichnology preserved in beach rock, WA;
- Geological heritage in SA;
- Geology & the State Heritage Register in SA - balancing Natural & Built environment listings;
- The National Rock Garden
- Geoheritage as an integral part of Australia's National Heritage List;
- History and heritage value of the SA Museum Mineral Collection;
- Woolshed Creek fossil site;
- Geoheritage significance of limestones recording changing climates & sea levels.



PHOTO: Pleistocene sediments of the Hindmarsh Clay (red) and unconformably overlying Bridgewater Formation (white) in cliff exposures at Balgowan, Yorke Peninsula, South Australia. Photo courtesy of Caroline Forbes

Mineral Endowment:

Formation and Exploration of Mineral Deposit; Their Tectonic and Geochemical Environment and Significance

Earth's Environment:

Past to Present

Tectonics of the Planet:

Craton and Continental Formation and Evolution, Ocean Plate Tectonics, Plate Margin and Plate Interior Tectonism

Deep Earth Geodynamics:

Core, Asthenosphere and Lithosphere Dynamics, Coupling the Dynamic Deep Earth with Surface Tectonics

Geoscience and Society

Education, Integration and Translation of Earth Sciences for Societal Benefit

Earth Science for Energy:

From Hydrocarbons to Renewables

SYMPOSIA

The 40th Anniversary of Olympic Dam Symposium

UNCOVER Symposium:

The future of under cover exploration

AuScope 10 Year Anniversary Symposium

Early-Mid Career Geoscientist Symposium

Sprigg Symposium:

Earth's Evolving Climate

SPEAKERS:

KEN McCLAY

(Royal Holloway University of London):
Thick and thin-skinned contraction –
Inversion in orogenic systems.

PAUL HOFFMAN

(Harvard University): Dates and dynamics –
Snowball Earth comes of age

RICHARD GOLDFARB

(Colorado School of Mines; China School of Geosciences,
Beijing): Gold deposits in metamorphic rocks: Why are we
getting more confused?

SANDY STEACY

(University of Adelaide): Forecasting
of tectonic and induced earthquakes

FIELDTRIPS AND WORKSHOPS:

A variety of pre-, mid- and post-conference field trips are also scheduled with the conference

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