

2008 AESC Day trips – Pre and Post Convention

An exciting and diverse range of Field Trips are on offer as part of the 2008 AESC Convention.

Transport: All field trips will utilize tour operators providing transport from the stated start and finish points.

Accommodation: Those trips more than a day long utilise hotel or motel accommodation where available, but otherwise accommodation will be a combination of shearing sheds and camping out. Motel accommodation is twin share, single occupancy may be available at additional cost. Camping equipment (tents, stretchers etc) will be provided although participants may prefer to provide their own sleeping bags.

Transfers: For trips not starting and finishing in Perth, connecting transfers (generally by air) and local accommodation prior to or after the trip is not included, to allow intending participants more flexibility with arrangements.

Trip Leaders or convention organisers will advise on recommended connecting flights and accommodation where necessary, but are not responsible for these bookings. In some cases, rooms have been tentatively booked, but participants will be responsible for final payment. Participants will be advised of any pre held accommodation booking availability on registration.

Pre-conference trips should finish on the Saturday prior to the AESC, in time for evening flights to Perth. Post-conference trips allow for flights from Perth on Friday morning, although some may be very early.

Capacities:

Please note each trip lists a minimum and maximum attendee number.

Should minimum numbers not be reached by the close-off date a trip may be cancelled.

If vacancies exist after the booking close date, registrations may be accepted.

Trip 8:

Geology and Landforms of the Perth Region: Pre Conference



This trip focuses on Proterozoic and Archean geology in the Perth region, based on the Geological Survey of Western Australia's guide to the Geology and Landforms of the Perth region. Stops include the geology of the Mesoproterozoic Cardup Group (which unconformably overlies Archean granite of the Yilgarn Craton) in disused quarries around Maddington and Armadale, and quarries around Boya that provide excellent exposures of Archean granites of the Yilgarn

Craton and cross-cutting Proterozoic dolerite dykes.

Leaders: Mike Wingate (GSWA) and Mike Freeman (DoIR)
Duration: 1 day
Dates: 19th July 2008
Participants: Minimum 15 – Maximum 20
Bookings Close: 4th July 2008
Cost: \$95 (AUS inclusive of GST)
Includes Lunch

Trip 9:

Geology and Landforms of the Perth region: Post Conference



This excursion will examine evidence for recent variations in global sea level controlled by changing climate, visiting locations described in the Geological Survey of Western Australia's guide to the Geology and Landforms of the Perth region. Stops include the geology of the eolian and marine units of the Tamala Limestone around the Swan River, the ocean shorelines of Cottesloe and Mosman Park, and the rocky headland of Cape Peron.

Leaders:	Bob Gozzard (GSWA)
Duration:	1 day
Date:	Friday 25 th July 2008
Participants:	Minimum 15 – Maximum 20
Bookings Close:	4 th July 2008
Cost:	\$95 (AUS inclusive of GST) Includes lunch.

Trip 10:

Meckering Fault Scarp



2008 marks the 40th anniversary of the Meckering earthquake, the site of the 1968 M6.9 intraplate quake which left a 37 km fault scarp. A later aftershock of M5.4 occurred in 1990. Both of these quakes occurred at extremely shallow depths (1-5km).

Intraplate earthquakes worldwide have generated only 12 surface ruptures. Of these, 5 are in Australia and 3 are in WA - Meckering is the biggest and best preserved. A section of the damaged fault is preserved in a farmer's field, and is approximately 2 km long. This section preserves some of the largest offsets on the oblique right-lateral thrust fault. The fault plane is clearly exposed - you can climb down into it - and the hanging wall preserves associated folding. Toward the southern end a series of large tears, perpendicular to the main thrust, are also preserved. They occur at the confluence

of two fault systems, and are close to the epicentre of the 1990 event. The preservation is spectacular. In addition, a visitor centre preserves the deformed railway tracks, a section of the deformed Kalgoorlie water pipeline, and it is also possible to visit to the ghost townsite and the still-standing remains of one of the houses.

Leaders:	Myra Keep (UWA)
Duration:	1 day
Dates:	Friday 25 th July 2008
Participants:	Minimum 15 – Maximum 20
Bookings Close:	4 th July 2008
Cost:	\$110 (AUS inclusive of GST) Includes lunch.

Trip 11: Of Cores – WA in A Day



The Geological Survey of Western Australia's Perth Core Library holds a wealth of mineral, petroleum, and stratigraphic core from Western Australia and adjoining Commonwealth waters. It is a modern facility located in Carlisle, about 15 minutes drive from the centre of Perth. GSWA maintains an active program of core harvesting through Western Australia, aimed at recovering important core that might otherwise be lost to the geoscientific community. The library will be open throughout the AESC, and a high demand is

anticipated from visiting geoscientists, so early booking for core viewing is advised.

On the Friday a range of core will be laid out for viewing, including core from the Pilbara Archean biosphere drilling project, Lancer 1 (a complete section through the western Officer Basin), and Vines 1 (recently re-interpreted as containing the first record of both Sturtian and Marinoan glacials in WA). GSWA geoscientists will be present to give their interpretation of the core and its significance, and tours outlining the operation of the core library will also be available.

Who should attend: Geoscientists interested in the Archean biosphere or the Centralian Superbasin, and those interested in the technical operation of a major modern core library.

Leaders:	GSWA geoscientists and core library personnel
Duration:	1 day
Dates:	Friday 25 th July 2008
Participants:	Minimum 15 – Maximum 45
Bookings Close:	11 th July 2008
Cost:	\$75 (AUS inclusive of GST) Includes Lunch