

## 2008 AESC Pre Convention Field Trips

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 1: Paleozoic Geology of the Canning Basin

The Devonian reefs of the Canning Basin are famous world-wide. Less well-known are the Ordovician and Carboniferous-Permian successions, both of which are the subject of recent field studies. From a start and finish in the tourist centre of Broome, participants will see Ordovician shallow-marine to evaporitic deposits and Devonian pre-reef and early reefal carbonates around Prices Creek, the Devonian reef complex at Windjana Gorge, and Permian deltaic and glaciogene rocks in the Poole Range.

The trip has been scheduled so that overnight accommodation in Broome is not required; participants can catch morning flights to Broome and evening flights from Broome if desired

**Who should attend:** Geologists with interest in the Paleozoic geology of Western and central Australia, from sedimentological, stratigraphic, petroleum, or minerals viewpoints.

Leaders:	Roger Hocking, Peter Haines, Arthur Mory (GSWA).
Duration:	7 days, ex-Broome
Dates:	12 <sup>th</sup> – 18 <sup>th</sup> July 2008
Participants:	Minimum 10 – Maximum 14
Operator:	Safari tour bus operator
Accommodation:	Camping
Bookings Close:	<b>Deadline extended to 18<sup>th</sup> June 2008</b>
Cost:	\$1,650 (AUS inclusive of GST) ex-Broome.
Does not include:	Connecting airfares or accommodation in Broome.

## Trip 2: Archean Crustal Evolution and Mineralisation of the Northern Pilbara Craton

Participants will see key evidence on the 3.52 – 2.92 Ga crustal evolution of the Pilbara Craton, visit some of Earth's oldest mineral deposits, and inspect the early Archean fossil stromatolites at North Pole.

Many of the world's largest and best preserved sections of early Archean crust are superbly exposed in the East Pilbara Terrane of the Pilbara Craton. Exposures near Marble Bar illustrate stages in crustal growth between 3.52 and 3.42 Ga, and provide evidence for relationships between vertical and horizontal deformation to 3.3 Ga. Via visits to the world-famous 3.5 – 3.4 Ga stromatolites at North Pole, the excursion will travel 300 km to the 3.27 – 2.83 Ga West Pilbara where geology and geochemistry have enabled a consensus on post-3.2 Ga plate tectonic processes.

**Who should attend:** Those interested in contrasting tectonic styles and mineralization during the Paleo- and Mesoarchean history of our planet, and the development of early life upon it.

Leaders:	Arthur Hickman and Martin Van Kranendonk (GSWA)
Duration:	6 days, ex-Pt Hedland
Dates:	14 <sup>th</sup> – 19 <sup>th</sup> July 2008
Participants:	Minimum 12 – Maximum 16
Operator:	Safari tour bus operator
Accommodation:	Combination of camping and hotel nights
Bookings Close:	<b>Deadline extended to 18<sup>th</sup> June 2008</b>
Cost:	\$1,595 (AUS inclusive of GST)
Does not include:	Connecting airfares or accommodation in Port Hedland

### Trip 3: Eastern Goldfields Superterrane, Yilgarn Craton

This excursion will traverse the central corridor of the Eastern Yilgarn Superterrane, and will provide a unique view of the differing styles of mineralisation and the structural setting of some of the Goldfields classic mines. The geology begins in the west at Lawlers/Agnew and finishes east of Laverton, visiting the Leonora district and some granite localities en route.

The aim of the trip is to link gold mineralisation with structure within a new overall geodynamic evolution for the Eastern Yilgarn, and will demonstrate that there have been multiple gold mineralising events (extensional, compressional and strike-slip, both sinistral and dextral). The excursion will challenge the existing structural paradigm by examining its foundations and examining the first principles by which regional structural event histories are compiled. We will present a modified regional structural event history primarily based on field relationships integrated with geochronological, geochemical, seismic and map pattern constraints.

**Who should attend:** Structural geologists and economic geologists with a structural leaning who are interested in new insights for Brownfields gold exploration in the Yilgarn Craton

Leaders:	Karol Czarnota (GA) Ben Goscombe (GA/pmd*CRC)
Duration:	4 days, ex-Kalgoorlie
Dates:	16 <sup>th</sup> – 19 <sup>th</sup> July 2008
Participants:	Minimum 20 – Maximum 30
Accommodation:	Motel
Bookings Close:	<b>Deadline extended to 18<sup>th</sup> June 2008</b>
Cost:	\$1,175 (AUS inclusive of GST)
Included:	Accommodation during trip and most meals included.
Does not include:	Connecting airfare or accommodation in Kalgoorlie before trip.