

14th Conference on Australasian Vertebrate Evolution, Palaeontology & Systematics

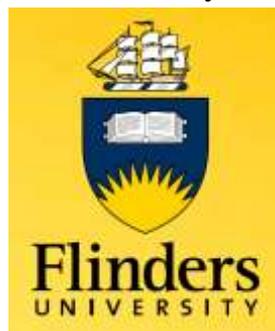
ADELAIDE, SOUTH AUSTRALIA

Monday 30th September – Friday 4th October 2013

“Celebrating 60 years since the 1953 Stirton expedition”

3RD & FINAL CIRCULAR

Hosted by



With generous support from





CALL FOR REGISTRATION AND ABSTRACTS

You are invited to register and submit abstracts for CAVEPS 2013. Early-bird registration closes Friday 12 July 2013. Standard registration closes Friday 30 August 2013. Registration after that will incur a late fee.

Abstracts can be submitted up to 30 August 2013 for both spoken and poster presentations on the accompanying form. Abstracts received after this date will not be accepted.

Numbers are limited for each of the field trips. If everyone who has already expressed an interest in participating follows through we will be oversubscribed. First in (i.e., registered and paid), best dressed.

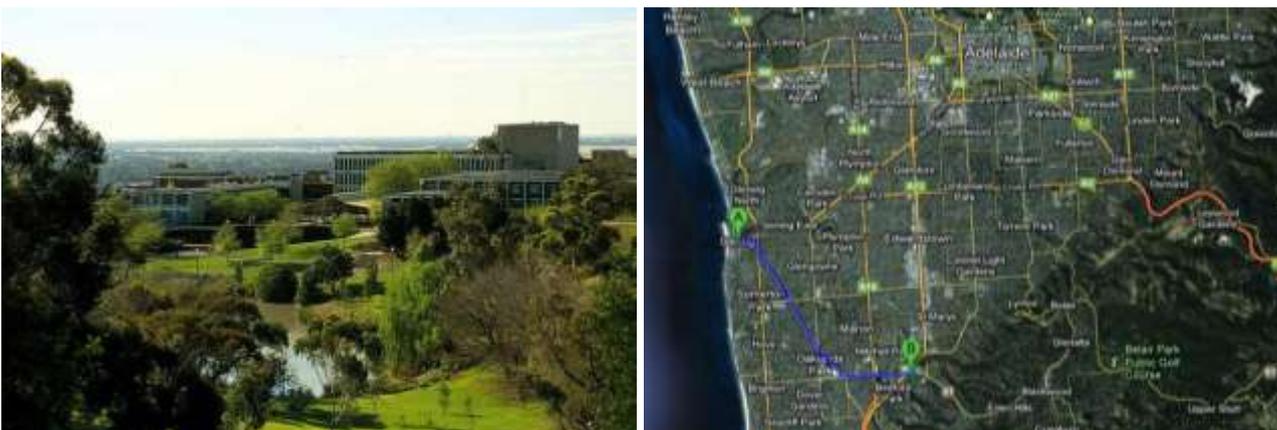
For general tourist information on Adelaide and South Australia, start at www.southaustralia.com. Please refer to Circular 2 for suggested accommodation options along with www.wotif.com (Adelaide / Glenelg).

We look forward to seeing you at CAVEPS 2013 in Adelaide.

Gavin Prideaux (gavin.prideaux@flinders.edu.au) and the organising team.

LOCATION

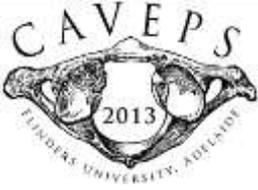
The conference will be held on the main campus of Flinders University (www.flinders.edu.au) in Bedford Park, 13 km south of Adelaide City Centre. We recommend that attendees stay in Glenelg (A on map below), which is 20 minutes' drive along the blue line to Flinders (B on map below). We will run a coach to Flinders from Glenelg (Colley Terrace) each morning and return in the evenings. There are also many accommodation options in Adelaide City Centre and regular public buses to and from Flinders.



SCIENTIFIC PROGRAM

Workshops – Monday 30 September

The workshops will be primers to methods / approaches used in palaeontology. Two will be run concurrently in the morning and two in the afternoon, meaning attendees can attend a maximum of two. Workshops were chosen based on preferences indicated in response to Circular 2. We are very lucky to have had some of



Australia's foremost practitioners in each discipline agree to run the workshops. Detailed programs will be provided to registrants closer to the time of the meeting. If you would like to attend, please register promptly. Numbers for each are strictly limited and places will get snapped up quickly.

1. Drawing fossils and reconstructions. *Conveners: Peter Murray and Peter Trusler.*
2. Advances in phylogenetic methods. *Conveners: Mike Lee and Matt Phillips.*
3. Fossil preparation and casting. *Conveners: Carey Burke, Jared Archibald and Debra Lewis.*
4. Radiometric and luminescence dating. *Conveners: Linda Ayliffe and Nigel Spooner.*

Symposia

1. Stirton symposium: Reflecting on the Legacy of Ruben Stirton – Tuesday 1 October AM

CAVEPS 2013 will celebrate the 60th anniversary of the inaugural University of California expedition headed by Professor Stirton to hunt for Australian Tertiary mammal fossils. Stirton and/or his students led numerous expeditions and prompted a renaissance in Australian vertebrate palaeontology. This symposium will review the achievements of Stirton and his protégés and advances made by researchers building on the foundation laid by them. It will also flag potential future directions in Australian Cenozoic palaeontology. *CAVEPS 2013 Plenary Address / Keynote Speaker for the Stirton Symposium: Dr Tom Rich, Senior Curator of Vertebrate Palaeontology, Museum Victoria, Melbourne.*

2. Phylogenetics: Bridging the Molecular–Morphological Divide – Wednesday 2 October AM

Palaeontological and molecular approaches to phylogenetic inference have had a somewhat antagonistic past. However, collaboration between these disciplines and development of novel methods that combine DNA and fossil data are bridging the divide and offer substantial benefits for reconstructing evolutionary history. This symposium will showcase integrative analytical methods being developed in areas such as phylogeny, ancient DNA and reconstructing ancestral states and evolutionary timescales. As well as highlighting recent advances in our knowledge of Australian vertebrate evolution, the session will encourage further links between palaeontological and molecular researchers.

Keynote Speaker: Prof. Dr. Johannes Müller, Museum für Naturkunde, Berlin, Germany.

3. Palaeoecology: Modern Methods and Recent Advances – Thursday 3 October AM

Over the past decade marked improvements in our awareness of how vertebrates of the past interacted with their environments, and how this might inform our understanding and management of the modern biota, have been facilitated by a raft of novel analytical methods and synergistic, multidisciplinary approaches. This symposium will showcase many of these advances and highlight the great potential of strengthening links between palaeoecology and conservation biology.

Keynote Speaker: Prof. Lee Lyman, University of Missouri, Columbia, USA.

General Sessions – Tuesday 1 to Thursday 3 October PM; Friday 4 October AM/PM

Spoken presentations in the form of original research papers, reviews or perspectives are invited on any topic that relates to vertebrate morphology, phylogeny, development, taphonomy, taxonomy, evolution, palaeoecology and ancient environments. A major aim of CAVEPS 2013 is to attract participation from researchers who are not palaeontologists or are not focused strictly on Australasian problems, but whose research offers much in terms of understanding the past, present and future of Australasian biota.



Presentations

All talks will be held in South Lecture Theatre 1 and/or 2, adjacent to Car Park 7 off Biology Road.

Keynote presentations will be allocated a one-hour timeslot: 45 mins talk + 15 mins for questions.

At this point in time, it is the plan that all other presentations in the symposia and general sessions will each be allocated 15 mins, with a maximum of 12 mins for the talk itself and 3 mins for questions. Session chairs will be allocated cattle prods or something equally effective at ensuring temporal compliance.

Anyone is free to contribute spoken papers in the general sessions. Anyone is free to offer contributions to the symposia, but the limited number of timeslots for each of these may mean that some talks are transferred to a general session. Bear in mind the aims of the symposia. Contributions to Symposium 1 must reflect, at some level, on the Stirton legacy. Contributions to Symposia 2–3 should be synthetic and/or analytically novel, or should present reviews or perspectives on such studies.

There will be a prize for the best student talk and best student poster (see below).

SOCIAL PROGRAM

Welcome Function – Monday 30 September evening

The CAVEPS 2013 Soiree will be held in the Pacific Cultures Gallery at the South Australian Museum. We will provide hors d'oeuvres and an array of fine South Aussie beverages courtesy of conference sponsors Majella Wines of Coonawarra and Lobethal Bierhaus of the Adelaide Hills.

Posters, Auction, Cheese and Wine – Tuesday 1 and Wednesday 2 October early evening

When our brains think they have soaked up as much information as they are going to retain for one day it will be time to wander up to the Science Innovation Learning Centre (SILC) Building and drop back a gear or two with some fine products from our sponsors, including some of Australia's finest cheeses made by Biodynamic Farm Paris Creek. Socialising aside, these sessions have two key functions:

1. *Examining student posters*

Each presenter will deliver a one-minute spoken advertisement of his/her poster. There will be a prize for the best poster presentation.

2. *Silent auction*

This is intended to include fossil replicas, surplus books, reprints, artwork...you name it. All funds will be donated to *Teachers Without Borders*, an organisation that aims to enhance education globally by supporting teachers locally (www.teacherswithoutborders.org). Post anything you think would be appropriate to Gavin Prideaux, School of Biological Sciences, Flinders University, Sturt Road, Bedford Park, SA 5042.

Please give this more than a passing thought. Not only will proceeds support a great cause, but your surplus reprints etc. will help build the libraries of our future leading researchers.



Conference Dinner – Thursday 3 October evening

The conference dinner will be held in the Grand Ballroom, Stamford Grand Hotel, Glenelg, which has balcony views across Gulf St Vincent. The evening includes a three-course meal plus drinks and palaeontologist-friendly entertainment.

FIELD TRIPS

Kangaroo Island Preconference Trip – Friday 27 to Sunday 29 September

KI is the third-largest of Australia's islands and one South Australia's most popular tourist destinations. Spectacular scenery and abundant wildlife combine with a fascinating human history and fossil record ranging from the Cambrian to Quaternary.

The trip will include visits to fossil sites in Kelly Hill Cave, which includes the longest-known record of Late Quaternary vertebrates on a land-bridge island, as well as Holocene archaeological sites and the Burgess Shale-equivalent Cambrian locality at Emu Bay. It will take in stunning natural locations including Remarkable Rocks, Admiral's Arch and Seal Bay. Dormitory-style accommodation at the Flinders–Baudin Research Centre, Flinders Chase National Park, Rocky River, is limited to 20 participants, but camping facilities are available in the nearby campground. Wildlife, including koalas, kangaroos, Cape Barren geese, brushtail possums and platypuses, abounds in the vicinity.

For more information visit www.southaustralia.com and www.sealink.com.au/about-kangaroo-island.

Leaders. Flinders University palaeontologist Matt McDowell (matthew.mcdowell@flinders.edu.au) and South Australian Museum archaeologist Keryn Walshe (keryn.walshe@samuseum.sa.gov.au) will guide this three-day excursion. Both have extensive knowledge of the palaeontological and human history of KI.

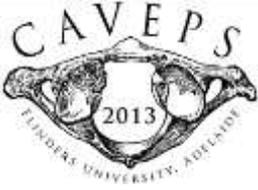
Pick-up Time and Location. 6.30 am, Friday 27 September 2013, Colley Terrace, Glenelg.

Drop-off Time and Location. 8.00 pm, Sunday 29 September 2013, Colley Terrace, Glenelg.

Cost. **\$380** per person for those staying in dormitories; **\$350** for campers. Cost includes coach and ferry travel, meals, drinks, field guide, accommodation, camping fees.

Maximum Number of Participants. 40

Weather and What to Wear or Bring. The KI weather in late September can be cool or warm, dry or wet, much like that of Adelaide, except that there is a slightly higher chance that it will be cooler and wetter. Mean maximum temperature is around 17°C and minimum around 10°C. Keep an eye on the weather forecast for Kingscote (www.bom.gov.au/sa/forecasts/map7day.shtml) and cater accordingly. There will be some walking along trails and across dunes. Sturdy boots and clothing will be necessary for crawling to the sites in Kelly Hill Cave. Helmets and headlights will be provided. A warm sleeping bag and pillow will be needed for dormitory accommodation. Campers will need to bring or organise their own tent and/or swag.



Lake Eyre Basin Post-conference Trip – Sunday 6 to Saturday 12 October

The Lake Eyre Basin is one of the world's largest internal drainage systems, covering much of central Australia. Lake Eyre is Australia's biggest lake and its lowest point. A giant, sun-baked salt flat for most of the time, it and other lakes in the basin fill in flood years. Fish and frog populations irrupt and large flocks of waterbirds arrive to breed before the water evaporates. The region preserves the continent's longest Cenozoic vertebrate succession, ranging from Oligocene through Pleistocene.

Fulbright Scholars Prof. Ruben Stirton and PhD student Dick Tedford of the University of California, Berkeley, spent several months in 1953 exploring the Lake Eyre Basin for Tertiary mammal fossils. Discoveries at Lake Palankarina and elsewhere in the Tirari Desert (wikipedia.org/wiki/Tirari_Desert) led to several future expeditions and seminal papers that laid the foundation for the current terrestrial biochronological framework of Australia.

The post-conference expedition will travel by 4WD vehicles to Marree and thence to Stirton Camp on the Cannuwaukaninna Dune. It will revisit some of Stirton's original sites along with several others subsequently studied by Dick Tedford and Rod Wells. The expedition will spend a day prospecting for fossils at Lake Palankarina before heading north to Malgoona Waterhole on the Cooper Creek, where two days will be spent prospecting for Pleistocene vertebrate remains. The expedition will return via the Flinders Ranges and tour through Brachina Gorge (www.pleasetakemeto.com/australia/brachina-gorge/information). Accommodation will be camping on the first four nights and cabin accommodation at Marree and Hawker on the last two nights.

Leaders. Flinders University palaeontologists Rod Wells (rod.wells@flinders.edu.au), Gavin Prideaux (gavin.prideaux@flinders.edu.au) and Aaron Camens (aaron.b.camens@gmail.com) will guide this seven-day excursion.

Pick-up Time and Location. 6.30 am, Sunday 6 October 2013, Colley Terrace, Glenelg.

Drop-off Time and Location. 6.30 pm, Saturday 12 October 2013, Colley Terrace, Glenelg.

Cost. **\$850** per person. Cost includes 4WD travel, meals and drinks while camping, field guide, cabin accommodation.

Maximum Number of Participants. 30

Weather and What to Wear or Bring. Expect days to be warm and nights to be cool. Mean maximum temperature is around 28°C and minimum around 12°C. Keep an eye on the weather forecast for Marree (www.bom.gov.au/sa/forecasts/map7day.shtml) and cater accordingly. There will be walking across dunes, river channels, dry lake beds and escarpments. Sturdy field boots and appropriate clothing should be worn. Attendees should bring a warm sleeping bag and pillow, but tents, swags and other camping gear will be provided.



CONFERENCE T-SHIRTS

Don't miss the chance to purchase official CAVEPS 2013 T-shirts for only \$25! The T-shirts are sourced from Etiko Merch. They are super-comfy, made from organic cotton and are fair trade (i.e., were not made by slaves). Check out their website for further details and wares www.etikomerch.com.au/t-shirts.

Orders close 12 July 2013.



Type A. LARGE CAVEPS 2013 LOGO ON FRONT

Available in:

Shade: DARK GREY with white image or LIGHT GREY with black image

Style: UNISEX / MEN'S or SLIMFIT / WOMEN'S

Sizes: See charts below



Type B. SMALL CAVEPS 2013 LOGO ON FRONT; LARGE STIRTON SYMPOSIUM LOGO ON BACK

Available in:

Shade: LIGHT GREY with black images ONLY

Style: UNISEX / MEN'S or SLIMFIT / WOMEN'S

Sizes: See charts below

Illustrated examples are Style: Unisex / Men's

T-shirt – Unisex / Men's Sizing Chart (mm)

SIZE	S	M	L	XL	XXL
WIDTH	540	560	600	620	650
HEIGHT	730	760	780	790	820

T-shirt – Slimfit / Women's Sizing Chart (mm)

SIZE	S	M	L	XL
WIDTH	430	460	490	600
HEIGHT	660	690	700	720



REGISTRATION FORM

Title: First name: Last name:

Preferred name for name badge:

Affiliation:

Postal Address: City:

State:

Country: Postcode/Zip:

Telephone: Mobile/Cell: Fax:

Email Address:

Please detail any special needs, e.g., disability or dietary requirements

Early bird Registration closes 12 July 2013			Standard Registration closes 30 August 2013			Late Registration up to start of conference		
General	\$250	<input type="checkbox"/>	General	\$325	<input type="checkbox"/>	General	\$390	<input type="checkbox"/>
Student	\$125	<input type="checkbox"/>	Student	\$175	<input type="checkbox"/>	Student	\$240	<input type="checkbox"/>
One Day	\$100	<input type="checkbox"/>		\$120	<input type="checkbox"/>		\$150	<input type="checkbox"/>
Dinner – general	\$95	<input type="checkbox"/>						
Dinner – student	\$75	<input type="checkbox"/>						
One Workshop	\$20	<input type="checkbox"/>	1. Drawing fossils and reconstructions – Monday AM		<input type="checkbox"/>			
Two Workshops	\$35	<input type="checkbox"/>	2. Advances in phylogenetic methods – Monday PM		<input type="checkbox"/>			
			3. Fossil preparation and casting – Monday PM		<input type="checkbox"/>			
			4. Radiometric and luminescence dating – Monday AM		<input type="checkbox"/>			
Kangaroo Island Field Trip - camping	\$350	<input type="checkbox"/>						
Kangaroo Island Field Trip – dorms	\$380	<input type="checkbox"/>						
Lake Eyre Basin Field Trip	\$850	<input type="checkbox"/>						
T-shirt @ \$25 each	Type:		Shade:			Style:		Size:
Number Required:	Type:		Shade:			Style:		Size:
	Type:		Shade:			Style:		Size:

TOTAL \$ (includes 10% GST)

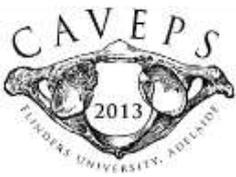
Payment Options and Return of Registration Form

1. **Credit / Debit Card** payments can be made by at https://www.flinders.edu.au/finance/ipay/ipay_home.cfm, and by selecting School of Biological Sciences / CAVEPS 2013 within the Product Catalogue.

2. **Cheques** made payable to ‘Flinders University’ can be forwarded to Gavin Prideaux with the registration form.

3. **Cash** payments can be made at the Flinders University Cashier’s Office, Level 0, Registry Building, Flinders University.

Please forward an electronic or a hard copy of this page to Gavin Prideaux (gavin.prideaux@flinders.edu.au or School of Biological Sciences, Flinders University, GPO Box 2100, Adelaide SA 5001) regardless of which payment method is chosen.



ABSTRACT FORM

Please fill out this form for all abstracts and email to Gavin Prideaux (gavin.prideaux@flinders.edu.au). If you would like to present more than one paper, simply duplicate this page. The deadline for the receipt of abstracts is 30 August 2013.

Name of Presenter:

Affiliation:

Email Address:

Intended Session for Presentation:

- Stirton Symposium**
- Palaeoecology Symposium**
- Phylogenetics Symposium**
- General Sessions**
- Poster (students only)**

All presentations should use Microsoft Powerpoint. These will be projected on a Windows-based system and should be brought to CAVEPS on a USB drive ready for uploading prior to the session commencement. Mac users should format their Powerpoint presentations to ensure PC compatibility.

Title:

Authors:

Abstract (300 words or less):