

**The Australian Entomological Society's 44th AGM & Scientific Conference
Sunday 29 – Wednesday 2 September 2013 DRAFT PROGRAM**

Information Disclaimer: The speakers, topics and times are correct at the time of publishing. In the event of unforeseen circumstances, the organisers reserve the right to alter or delete items from the Conference Program

Time	Sunday 29 September
From 16:00	Registration
17:00-19:00	Welcome reception (included in registration)

Time	Monday 30 September	
from 08:00	Registration	
09:00-09:15	<i>Welcome and Housekeeping</i>	
	Official opening by Alan Holmes	
09:15-10:00	Keynote: Mike Strand: Exploiting the Harsh Environment Within: the Remarkable Adaptations of Endoparasitic Insects for Survival in Hosts	
10:00 - 10:30	Morning Tea	
	Session 1A Cave & subterranean environments Chair: Steve Cooper	Session 1B Systematics (sponsored by ABRS Bush Blitz) Chair: Kate Gillespie
10:30-10:45	Bill Humphreys: Anchialine ecosystems: an Australian home for relictual extremophiles	Mim Jambrecina: Bush Blitz—Setting the Scene
10:45-11:00	Michelle Guzik: Genetic divergences and species boundaries in subterranean invertebrates of calcrete aquifers in central Western Australia	Beth Mantle: Morphometric measurements of dragonfly wings: a comparison of pinned, scanned, and detached measurement methods
11:00-11:15	Stuart Halse: Differences between groups of troglofauna in species' ranges and genetic variability	Matt Krosch: Taxonomic resolution and sufficiency in freshwater biomonitoring: a case study of the genus <i>Cricotopus</i> van der Wulp (Diptera: Chironomidae) in Australia
11:15-11:30	Syedmohammad Javidkar: Molecular Systematics and Diversification of Oniscidean Troglofauna (Isopoda) in Groundwater Calcretes of Central Western Australia	Murray Fletcher: Review of the leafhopper genus <i>Hishimonus</i> Ishihara (Hemiptera: Cicadellidae: Deltocephalinae) in Australia

11:30-11:45	Rachael King: Exploring the biodiversity of Australian groundwater-associated amphipods using molecular and morphological approaches	Michael Burleigh: Scientific Illustration in Research Papers: Dung Beetles of Timor-Leste
11:45-12:00	David Merritt: Behavioural synchronisation of bioluminescence in the Australian glowworm, <i>Arachnocampa tasmaniensis</i>	Richard Glatz: Discovery of a new primitive lepidopteran family on Kangaroo Island, South Australia
12:00-12:15	Tim Moulds: A preliminary survey of the invertebrate fauna of the Gunung Mulu World Heritage karst area, Sarawak, Malaysia	Stephen Cameron: Deep-level phylogenetics of the Lepidoptera (butterflies, moths): How to fix the nodal support problem
12:15-12:30	Nicholas Stevens: Diversity, distribution and habitat parameters of stygofauna of the Lake Way associated calcretes and beyond: Existence and persistence in the semi-arid landscape of the Western Australian Goldfields	Michael Braby: Spatial distribution and range expansion of the Tawny Coster, <i>Acraea terpsicore</i> (Lepidoptera: Nymphalidae), a new butterfly for South-East Asia and Australia
12:30 - 13:15 Lunch (included in registration)		
	Session 2A Multi-trophic interactions Chair: Geoff Gurr	Session 2B Biological control and invasive species Chair: Joanne Kent
13:15-13:30	Geoff Gurr: Trophic interactions in extreme environments: from rice crops to pine forests	Kyla Finlay: Understanding the significance of natural pathways for pest entry into Australia and New Zealand
13:30-13:45	Peter Trebicki: Insect vectors, plants and pathogens under future climate conditions	Zhenhua Hao: Entomological radars yield insights into insect migration in Australia
13:45-14:00	Natalia Chodelski: Shelterbelts are associated with improved functional biodiversity and soil quality in a vineyard ecosystem	Bebe McCarthy: The Identification of <i>Philobota</i> spp. (Lepidoptera: Oecophoridae) in New Zealand.
14:00-14:15	Cate Paull: <i>Helicoverpa</i> spp. response to landscape structure	Mark Schutze: The curious case of the Invasive Fruit Fly, <i>Bactrocera invadens</i> (Tephritidae): has tangled taxonomy crippled a continent?
14:15-14:30	Nancy Schellhorn: Interactions in extreme environments: conventional and organic pest management across the landscape	Helen Sharpe: Insect invaders from across the sea: When do we surrender?
14:30-14:45		Geoff Baker: Exotic millipedes and snails – have we given biological control a fair go?
14:45 - 15:15 Afternoon Tea		
	Session 3A Insect Plant interactions Chair: Gary Taylor	Session 3B General contributed papers Chair: Phil Weinstein
15:15-15:30	David Yeates: Diversification, coevolution and host plant evolution in <i>Fergusonina</i> galling flies feeding on Myrtaceae	Graeme Smith: Silverfish (Nicoletiidae: Zygentoma) in subterranean environments

15:30-15:45	Bernie Dominiak: Areas of Low Pest Prevalence – a new standard for trade in fruit fly host commodities	Chris Madden: Teenage Mutant Indicator Chironomids? Long-term occurrence of deformities in the chironomid larvae (Diptera: Chironomidae) in the Murray-Darling basin
15:45-16:00	Arianne Cease: Mongolian locusts may require balanced diets to develop migratory swarms	Margaret Hardy: An orally active insecticidal toxin from the venom of an Australian tarantula
16:00-16:15	Ximonie Clark: Plant nutrients, mouthparts and temperature: the intricacies of insect nutrition	Tamara Pulpitel: You are what you eat: "Don't eat me, I'm infectious!"
16:15-16:30	Kevin Farnier: Influence of vision on host specificity in <i>Eucalyptus</i> psyllids (Hemiptera: Psyllidae)	Christian Nansen: Use of reflectance data to identify and detect stress of insects
16:30-16:45	Aidan Hall: Eucalypt psyllid population dynamics and psyllid-induced tree decline – a case study from Western Sydney	Kay Anantanawat: Comparison of egg gene expression profiles between <i>Bt</i> -toxin susceptible and induced-tolerant <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae)
16:45- 17:00	Stewart Learmonth: Insecticide strategy for managing greenhouse whitefly <i>Trialeurodes vaporariorum</i> (Westwood) in tamarillos	John Conran: A diverse 23 million year old subtropical insect fauna from Foulden Maar, southern New Zealand
17:00 - 18:00	Poster presentations	
	<i>Free evening – own arrangements</i>	

Time	Tuesday 1 October	
08:30	Registration desk open	
08:50-09:00	Housekeeping	
09:00-09:45	Keynote: Peter Cranston: Extreme midges	
09:45-10:30	Session 4A Xeric Environments Chair: Mark Stevens	Session 4B Insect Plant interactions (continued) Chair: Martin Steinbauer
09:45-10:00	Alejandro Velasco-Gastrillón: Diversity and distribution of soil microfauna from Antarctica	Beryn Otieno: Host plant preference and acceptance of subspecies and genotypes of <i>Eucalyptus camaldulensis</i> by <i>Leptocybe invasa</i> (Hymenoptera: Eulophidae)
10:00-10:15	Peter Hudson: Flightless beetles and islands of salt: a tale of Australian pogonine beetles	Michaela Purcell: Are <i>Fergusonina</i> galls ever founded by multiple mothers?
10:15-10:30	Mark Castalanelli: Some Like it Hot – Using Next Generation Sequencing to examine the genetic structure of the highly thermophilic genus <i>Melophorus</i>	Anamika Sharma: Nymphal development and lerp construction of <i>Glycaspis</i> sp. (Hemiptera: Psylloidea) on <i>Eucalyptus sideroxylon</i> (Myrtaceae) in Central-west New South Wales

10:30-11:00	Morning Tea	
	Session 5A Xeric Environments (continued) Chair: Peter Cranston	Session 5B Insect Plant interactions (continued) Chair: Martin Steinbauer
11:00-11:15	Simon Tierney: Sweat bee sociality along an environmental cline	Ian Smith: Influence of shelterbelt (windbreak) resources on beneficial arthropod groups
11:15-11:30	Nihara Gunawardene: From boom to bust- tracking invertebrate species on an offshore island	Martin Steinbauer: Nutritional enhancement of eucalypt leaves by 'Grey box <i>Cardiaspina</i> ' psyllid (Hemiptera: Psyllidae)
11:30-11:45	Beryl Morris: Behavioural responses to extreme temperature by blowfly maggots	Duong Nguyen: Turn up the heat and you'll get more sons! Bacterially facilitated temperature dependent sex ratio in an Australian species of thrips
11:45-12:00	Francesca van den Berg: Intraspecific competition among spiders for suitable retreat sites in stressful thermal environments	Lindsey Gray: How to eat your way bigger and more beautiful: influence of larval nutrition on adult male <i>Drosophila melanogaster</i> performance and sex-comb morphology
12:00-12:15	Graeme Smith: Silverfish (Lepismatidae: Zygentoma) in xeric environments	
12:15-13:15	Lunch (included in registration)	
13:15-14:00	Keynote: Andy Austin: Evolution of a 'megadiverse' group – the parasitic Hymenoptera"	
	Session 6A Parasitoids and the host milieu Chair: Andy Austin	Session 6B General contributed papers (continued) Chair: Phil Weinstein
14:00-14:15	Seraina Klopstein: Parasites of parasitoids: <i>Wolbachia</i> bacteria in <i>Diplazon</i> and their effect on DNA barcoding	John Conran: The first fossil arthropods from New Zealand amber
14:15-14:30	Sassan Asgari: The impact of parasitism on the host transcriptome and microRNA profile in <i>Diadegma semiclausum</i> - <i>Plutella xylostella</i> system	Umar Lubanga: Biology, Courtship Behaviour and Mate Selection of <i>Aacanthocnema dobsoni</i>
14:30-14:45	Sarah Mansfield: Intraspecific competition in egg parasitoids: the importance of egg maturation	Judit Kibedi: Long Range Detection of Aerial Hawkers but not Gleaning Bats by Ground Dwelling Field Crickets (<i>Teleogryllus</i> spp.) is Possible
14:45-15:00	Kate Muirhead: Phylogeography and polydnavirus haplotype diversity in the <i>Cotesia flavipes</i> complex	

15:00-15:30	Afternoon Tea
	Session 7A Parasitoids and the host milieu (continued) Chair: Seraina Klopstein
15:30-15:45	Stanislav Korenko: Alteration of spider web architecture (Araneae, Orbiculariae) induced by polysphinctine parasitoids (Hymenoptera, Ichneumonidae, Polysphinctini)
15:45-16:00	Richard Glatz: Do bracoviruses interfere with G-protein signaling to facilitate parasitisation by their braconid wasp hosts?
16:00-16:15	Rebecca Kittel: Phylogenetics of chelonine wasps (Hymenoptera: Braconidae) with special reference to the Australian diversity
16:15-17:30	<i>Australian Entomological Society 44th Annual General Meeting</i>
18:30-22:30	CONFERENCE DINNER, Pacific Gallery South Australian Museum (includes welcome drink and then cash bar)

Time	Wednesday 2 October	
08:30	Registration desk open	
08:50-08:55	Housekeeping	
	Session 8A Pollination Chair: Scott Groom	Session 8B Parasitoids and the host milieu (continued) Chair: Andy Austin
08:55-09:10	Caroline Gross: <i>Ficus rubiginosa</i> and its Fig-wasp Community – Extreme Environments Influence Wasp Abundance but not Species Richness.	Syngeon Rodman: The use of the parasitoid Hymenoptera (Insecta) in the management of topsoil stockpiled for rehabilitation on Barrow Island, Western Australia
09:10-09:25	Katja Hogendoorn: Native bees that pollinate introduced crops	Maryam Yazdani: Host location and host stage preference of <i>Dolichogenidea tasmanica</i> (Cameron) (Hymenoptera: Braconidae)
09:25-09:40	Thomas Wallenius: Chemical ecology and pollination biology of the Australian cycad <i>Macrozamia communis</i>	Yi Feng: Interspecific competition between two generalist parasitoids that attack <i>Epiphyas postvittana</i> (Lepidoptera: Tortricidae)
09:40-09:55	Sophie 'Topa' Petit: Thynnid wasps and the pollination of treacherous spider orchids	Muhasmmad Anjun Aqueel: Interactions between parasitoids and cereal aphids: Does nitrogen fertilizer affect the performance of parasitoids?
09:55-10:30	Morning Tea	

	Session 9A Pollination (continued) Chair: Caroline Gross	Session 9B Urban Ecology Chair: Dieter Hochuli
10:30 -10:45	Scott Groom: Coalescent analyses indicate parallel responses of bees to past climate change in three isolated archipelagos of the south western Pacific	Dieter Hochuli: The changing face of entomology in urban environments: conflicts, conundrums and opportunities
10:45-11:00	Hannah Ling: The effects of prescribed burns, habitat fragmentation and introduced species on invertebrate pollination systems within an endangered mallee community	Alan Yen: Insects as human food: reality or fanciful thinking?
11:00-11:15	Elisabeth Fung: First detection of honeybee' viruses associated with Australian native bees	Stephen Doggett: A New Resource on Medical Entomology
11:15 -11:30	Michael Schwarz: First evidence for a massive extinction event of bees close to the K-T boundary	Elizabeth Lowe: How to pick a winner: The effect of urbanisation on the abundance and life history of an urban exploiter, <i>Nephila plumipes</i>
11:30 - 11:45	Jenny Shanks: Superior hygienic behaviour: one possible explanation for lower levels of brood pathogens in Australian stingless bees	Craig Williams: Head lice in urban Australia: new treatments and old challenges
11:45- 12:00	Tim Heard: Paths to achieving commercial-scale use of stingless bees in crop pollination, the role of urban areas	Emily Johnston: Mosquito (Diptera: Culicidae) communities with trap height and urban gradient in Adelaide, South Australia: implications for disease vector surveillance
12:00- 12:45	Lunch (included in registration) (Editorial Board meeting)	
12:45 -13:30	Keynote: Chris Daniels: Citizen Science: Connecting people with Nature through Spider Research	
	Session 10A Urban Ecology (continued) Chair: Chris Daniels	
13:30 - 13:45	Melodie McGeoch: Maximizing the value of insects as indicators for conservation science and policy	
13:45 - 14:00	Stephen Doggett: The Rise and Challenge of Bed Bugs	
14:00 - 14:15	David Lilly: Insecticide Resistance In Bed Bugs In Australia: Are They Getting A Little Too Cozy In Your Bed?	
14:15 - 14:30	Kai Dang: Detection of knockdown resistance (<i>kdr</i>) mutations in the bed bug, <i>Cimex lectularius</i> (Hemiptera: Cimicidae), in Australia	
14:30 - 14:50	Phil Carne Prize presentation / Closing remarks / Awards	
14:50 - 15:20	Afternoon Tea	
	Session 11A How to publish - Editors of Austral Entomology (Workshop) Chair: David Yeates	