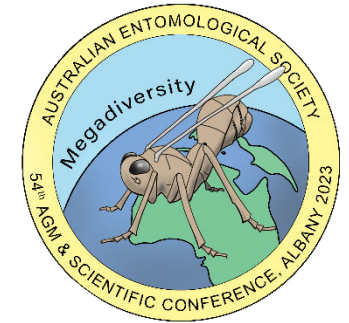


Program of the 2023 Australian Entomological Society 54th Annual General Meeting and Scientific Conference

12 - 15 November 2023, Albany Entertainment Centre, Albany, Western Australia

*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*



Venue Key: AEC = Albany Entertainment Centre | HGI = Hilton Garden Inn | UWA = UWA Albany Campus

Sunday 12th November		
8.30-2.30pm UWA	Australian Entomological Society Board meeting	
1.30-4pm UWA	<i>Austral Entomology</i> Editors Board meeting	
16.30-18.30 AEC	Registration, Welcome Reception: AES President's address (Melinda Moir), UWA representative address (Steve Hopper) , WA Museum CEO address (Alec Coles)	

Monday 13th November		
Time	AEC Main Room	Hilton stream
8.00-8.30	Registration desk open	
8.30-9.00	Official opening of conference, Welcome to Country (8.35am), Presidents address	
9.00-9.45	Plenary - Sonya Broughton CPBO	
9.45-10.00	Pat Marks presentation	
10.00-10.30	Morning tea	

Monday 13th November (cont.)		
	General session: Invasive species Laura Fagan chairing	General session: Viruses and Vectors Piotr Trebicki chairing
10.30-10.45	Steinbauer: Holding the biosecurity front line	Xu: A streamlined sampling approach to quantify the invertebrates associated with the Yellow Canopy Syndrome of sugarcane
10.45-11.00	Lassaline: Untangling the web: Dynamics of the Australian terrestrial invertebrate trade	Aftab: Identification of flying aphid species in Victorian grain crops
11.00-11.15	Schutze: A review of the introduced scale insects of Australia	Trebicki: The native Australian spittlebug, <i>Bathyllus albicinctus</i> , a potential vector of exotic <i>Xylella fastidiosa</i>
11.15-11.30	Cousins: Polyphagous shot hole borer – eradicating an invasive exotic beetle from Western Australia	Selleck: Investigating cercopoid (froghopper and spittlebug) diversity in eastern Australian orchards and vineyards
11.30-11.45	Szito: Morphological identification of the Polyphagous Shot Hole Borer, <i>Euwallacea fornicatus</i> (Coleoptera: Curculionidae)	Nancarrow: Transmission efficiency of Australian cereal viruses by four aphid species
11.45-12.00	Gloag: The aftermath of a founding bottleneck: invasive Asian honey bees in Australia	Peck: Adapting to big city life: Using mosquito biodiversity to monitor parasite and virus abundance in urban and peri-urban areas.
12.00-12.45	LUNCH	AES Education committee meeting
	General session: Invasive species Mark Schutze chairing	General session: Physiology, Behaviour & Evolution Wei Xu chairing
12.45-13.00	Theo Evans: modelled worldwide potential distribution of two of the world's most widespread termite invaders	Paris: How often are male mosquitoes attracted to humans?
13.00-13.15	Martoni: Complementarity of morphological and molecular identifications of ants (Hymenoptera: Formicidae) for biosecurity.	Hart: To hair or not to hair, that is the question: the effectiveness of urticating hairs as a defence in the face of larval mortality
13.15-13.30	Tobin: An integrative approach to uncovering the distribution of the pest nitidulid <i>Carpophilus truncatus</i> in Australia	Xu: Functional characterization of moth sensory neuron membrane proteins (SNMPs)
13.45-14.00	Steinbauer: Partners in crime: Facilitation of foraging and predation by European wasps through access to a new source of honeydew	McGenniskin: Phylogenetic and environmental determinants of oothecal structure in Australian mantises (Mantodea)

Monday 13th November (cont.)		
14.00-14.15	Fagan: Safeguarding borders to protect biodiversity	Lewis: Lifetime and reproductive consequences of short-term anthelmintic exposure to female dung beetles
14.15-14.20	Fenner (rapid fire): On the trail of the green snail	Anderson (rapid fire): The density and evenness of dung beetle assemblages increase ecosystem multifunctionality
14.20-14.50	Afternoon tea	
14.50-15.00	Photo shoot of AES conference participants: Pia Scanlon	
	General session: Ecology & biology Kirsti Abbott chairing	General session: Physiology, Behaviour & Evolution cont. Leigh Simmons chairing
15.00-15.15	Brassard: The impacts of fire on ant communities varies among vertical strata: results from a long-term fire experiment in an Australian tropical savanna.	Dashevsky: Venomics of spider wasps (Hymenoptera: Pompilidae)
15.15-15.30	Townsend: Response of carrion-associated flies (Diptera) to mass mortality events in an Australian alpine ecosystem	Lymbery: Warfare in ants and video games
15.30-15.45	Rahman: Developing an age-stage and two-sex life table of the lesser-known Australian fruit fly Northern Territory fruit fly <i>Bactrocera aquilonis</i> (May) from different hosts	Smart: Unravelling the three axes of termite antipredator traits: a comparative analysis of the morphological, chemical, and behavioural defences of Australian mound building termites.
15.45-16.00	Tierney: Nesting biology of alpine <i>Exoneura</i> bees: an important high altitude pollinator	Rabia Ali: Self and conspecific host discrimination in the egg parasitoid <i>Trichogramma pretiosum</i>
16.00-16.15	Thomas: Using morphometrics to study the ecology and life history of an iconic New Zealand Stag beetle	Hedde: Dung derived from different pasture types influence progeny size
16.15-16.30	Mavende: The effectiveness of automated suction traps in monitoring beneficial parasitoid wasps	Bayless: Contextualising multiple origins of parasitism in acalyptate fly phylogenomics
16.30-17.30	Poster session	
19.00-22.00	Student Event Night 2023	

Tuesday 14th November		
Time	AEC Main Room	Hilton stream
8.20-8.30	Welcome and Housekeeping	
8.30-9.15	Plenary - Bill Humphreys	
	General session: Anthropogenic impacts & conservation Lachlan Jones Chairing	General session: Endosymbionts and microbes Elsie Kinnaird chairing
9.15-9.30	Tsyrlin: Molecular methods for the other 95% of animal diversity	Bilgi: Evaluation of entomopathogenic fungi against Mediterranean fruit fly.
9.30-9.45	Tweed: Identifying and filling the gaps in the conservation of island endemic insects: a case study from Norfolk Island	Soleimannejad: Novel endosymbionts effects on interaction between grain crop aphids and parasitoids
9.45-10.00	Yagui: Restoring declining species through translocations: A test case using flightless grasshoppers in an urban setting	Tan: Efficacy of microbes from honeybees and the small hive beetle pest to develop traps that affect beetle attraction and oviposition choice
10.00-10.15	Petersen: Ecology and conservation of significant butterflies <i>Ogyris subterrestris petrina</i> and <i>Jalmenus aridus</i>	Williamson: The role and acquisition of gut bacteria in an Australian native bee
10.15-10.45	Morning tea	
	General session: Anthropogenic impacts & conservation cont. Richard Glatz chairing	General session: Endosymbionts and microbes cont. Vineeta Bilgi chairing
10.45-11.00	Gibb: Rainforest litter invertebrates decimated by high severity burns during Australia's gigafires	Ansermin: <i>Rickettsiella</i> , an endosymbiont of aphids, affects microhabitat selection in the green peach aphid, <i>Myzus persicae</i>
11.00-11.15	Jones: Body size of North American solitary bees resilient to warming temperatures in Rocky Mountain wildflower meadows	Dorai: Understanding microbial communities within aphids and their interactions with insecticides
11.15-11.30	Glatz: Enigma moth parasitoid, <i>Ovaustra aurantia</i> (Hymenoptera: Braconidae): third partner in a specific tri-trophic interaction at high risk of co-extinction	Qazi: Endosymbionts..manipulators of reproduction in parasitoid wasps?
11.30-11.45	Bell: Building streetscape habitat to enrich biodiversity	Ross: Deleterious endosymbionts for aphid (Hemiptera: Aphididae) control
11.45-12.00	Arriaga Jiménez: IUCN SSC - Dung Beetle Specialist Group	Whittle: Parental control of offspring microbiota in <i>Aedes aegypti</i> mosquitoes
12.00-12.15		Gill: Importance of considering the holobiont in aphid populations for research
12.15-13.00	LUNCH	AES Conservation committee meeting

Tuesday 14th November (cont.)		
	Symposium: Pollination James Cook chairing	General session: Taxonomy and Systematics Nate Lo chairing
13.00-13.15	Menzies: eDNA and invertebrate pollinator community comparison: an EPICC survey method comparison study and community analysis	de Souza Castanheira: Taxonomy and systematics of the 'backbourkiine' spiders, a putative new subfamily of orb-weavers (Araneae, Araneidae)
13-15-13.30	Tierney: The tyranny of distance: bee pollination services in the Australasian realm	Prado: Taxonomy and systematics of the artoriine wolf spiders (Araneae: Lycosidae): is <i>Artoria</i> monophyletic?
13.30-13.45	Slattery: Disparate continental scale patterns in the floral host breadth of Australian colletid bees (Colletidae:Hymenoptera)	Piper: Population genomics of the Queensland Fruit fly (<i>Bactrocera tryoni</i>) species complex.
13.45-14.00	Milla: A hundred years of vegetation changes in Kosciuszko National Park reflected in the pollen record of insect specimens	Mills: Diversity of Australian archaeococcoid scale insects: implications for taxonomy and biological control
14.15-14.30	Cook: Exploring the diversity of Australia's fig-pollinating wasps	Morgan: Taxonomy and systematics of <i>Chasmoptera</i> (Neuroptera: Nemopteridae: Nemopterinae): assessing the species status of Western Australia's only spoon-wing lacewing genus.
14.30-14.45	Encinas-Viso: Genetics and ecology of the alpine allodapine bee <i>Exoneura</i> spp.	
14.45-15.15	Afternoon tea	
	Symposium: Pollination cont. Katja Hogendoorn chairing	General session: Taxonomy and Systematics cont. Nik Tatarnic chairing
15.15-15.30	Gilpin: How are flowering plants and pollinators affected by fire and the indirect consequences for pollination services within orchards.	Paphatmethin: Molecular phylogeny of Australian micro-moths in the superfamily Gelechioidea (Lepidoptera)
15.30-15.45	Gloag: Male bees visit flowers too: understanding the life history and pollen transport of <i>Tetragonula</i> males	Rodriguez: Phylogenomics and taxonomy of the genus <i>Leioproctus</i> (Colletidae)
15.45-16.00	Hilton: Host plant pollination by Australian Heliozelidae (Lepidoptera: Adeloidea)	Zwick: High-throughput collection genomics: Generating DNA reference sequences at scale
16.00-16.15	Hogendoorn: The use of solitary bees in protected cropping	Lo: Evolution and systematics of <i>Panesthia lata</i> , an endangered cockroach from the Lord Howe Island Group, and related taxa
16.15-16.30	Taniguchi: To identify native insect species that help avocado flower pollination in Western Australia	Slater-Baker (rapid fire): Investigating the biodiversity and systematics of Australian 'mummy wasps' (Braconidae: Rogadinae)
		Beaver (rapid fire): Systematics of the genus <i>Clania</i> , with a preliminary phylogeny of the Australian Bagworm Moths (Lepidoptera: Psychidae)

Tuesday 14th November (cont.)		
16.30-17.30	AES AGM	
19.00-11.00	Dinner - Hilton	

Wednesday 15th November		
Time	AEC Main Room	Hilton stream
8.25-8.30	Welcome and Housekeeping	
8.30-9.15	Plenary - Bush blitz speaker Cathy Byrne	
	Phil Carne prize finalist talks x 3:	
9.15-9.35	Heddle - The interaction between <i>Onthophagus binodis</i> and cattle dung pH;	
9.35-9.55	Contos - Whole-of-community invertebrate rewilding: Leaf litter transplants rapidly increase beetle diversity during restoration;	
9.55-10.15	Patricia Henriquez-Piskulich - Dazzled by shine: gloss as an antipredator strategy in fast moving prey	
10.15-10.45	Morning tea	
	Symposium: Bush blitz Kate Grarock chairing	General session: Pest management and control Donna Chambers chairing
10.45-11.00	Harding/Grarock: Over a decade of species discovery with Bush Blitz	Chambers: Cup half-full: Managing the world's worst coffee pest, Coffee Berry Borer (<i>Hypothenemus hampei</i> (Ferrari); Coleoptera: Curculionidae: Scolytinae) in Papua New Guinea
11.00-11.15	Braby: Systematics, diversification and evolutionary history of butterflies in the tribe Candalidini (Lepidoptera: Lycaenidae)	Bawa: Review of potential use of pheromones for canegrub control in Australian sugarcane: past research and future opportunities
11.15-11.30	Evangelista: Phylogenomics of endemic Australian Ulopinae (Hemiptera: Cicadomorpha: Cicadellidae)	Rahman: Insect response to canola with modified sterol metabolism
11.30-11.45	Leijs: Fourteen years of Bush Blitz native bee surveys: new species and a DNA barcode reference library for Australian bee species.	Regmi: Performance of fall armyworm reared on various horticultural crops
11.45-12.00	Tatarnic: Sticky assassins – the evolution of resin use in Australian assassin bugs (Hemiptera: Reduviidae)	Sarkar: The predator community of tomato potato psyllid, <i>Bactericera cockerelli</i> in Western Australia and their field predation
12.00-12.15	Kearney (rapid fire): Yalata-Fowlers Bay Bush Blitz Orthoptera: Caelifera	Farrell: The Future of Banana IPDM - Microbial and Biological Pest Control
12.15-13.00	LUNCH	AES Collection committee meeting

Wednesday 15th November (cont.)		
	Symposium: Bush blitz cont. Cathy Byrne chairing	General session: Pest management and control Svetlana Micic chairing
13.00-13.15	Ward: Fluffy bums and their aliens: The distribution and abundance of passionvine hopper, <i>Scolypopa australis</i> (Walker) (Hemiptera: Ricaniidae), parasitoids in Victoria	Micic: Finding French Anystis Mite (FAM), 30 years after its release in grain growing areas of Western Australia
13.15-13.30	Martoni: Biodiversity of the Norfolk Island psyllids (Hemiptera: Psylloidea)	Thia: Genomic investigations of demography and pesticide resistance evolution in an invasive mite pest
13.45-14.00	Constant: What about <i>Platybrachys</i> & c. planthoppers one century after Henry Hacker? (Hemiptera: Eurybrachidae)	Nguyen: Insecticide resistance in Australian serpentine leaf miner, <i>Liriomyza huidobrensis</i> (Blanchard, 1926) (Diptera: Agromyzidae)
14.00-14.15	Yeates: Diversification, cospeciation and host-use evolution in Australian <i>Fergusonina</i> (Diptera: Fergusoninidae) galling flies feeding on Myrtaceae	Schmidt: Global, asynchronous sweeps at multiple resistance genes in <i>Aedes</i> mosquitoes
14.15-14.30	Moir: Checking the pulse: assessing insect diversity, taxonomy and threat status in south-west Australia	Severtson: Determining the economic impact of native budworm (<i>Helicoverpa punctigera</i>) in cereal crops in Western Australia
14.30-15.00	Afternoon tea	
	Symposium: Entomological education David Merrit and Helen Spafford chairing	General session: Collaborations, Engagement & Extension Volker Framenau chairing
15.00-15.15	David Merritt (UQ) The past and the future of entomological education in Australia	Framenau: To describe or to document: making a case for the Fauna Portal using money spiders (Araneae: Linyphiidae)
15.15-15.30	Greg Holwell (NZ) Entomology teaching and learning in Aotearoa New Zealand: past, present and future	Kearney: Digitising a Key chapter in Australia's entomological history: grasshopper collections of the ANIC
15.30-15.45	Kirsti Abbott (MAGNT) A Brief History of Entomological Education in Australian Museums	Bikaun: Harnessing citizen science for enhanced Varroa surveillance in Western Australia
15.45-16.00	Lyn Cook (UQ) Challenges and benefits of AI for insect identification in tertiary level courses	van der Mescht: Beekeeper experience and training are associated with beneficial practices that prevent the spread of American foulbrood (<i>Paenibacillus</i> larvae)
16.00-16.15	Andy Howe (USC) Insect Investigators: a school-based citizen science project on arthropod diversity	Guthrie: MyPestGuide® - Making taxonomy sexy again by connecting scientists with an engaged community
16.15-16.30	PANEL DISCUSSION - Helen Spafford	Schutze: The AES Collection Committee arisen from the ashes of CHAEC
16.30-16.45	PANEL DISCUSSION - Helen Spafford	Ridsdill-Smith (rapid fire): An important and victorious science: the International Congresses of Entomology

Wednesday 15th November (cont.)		
16.45 - 17.30	Awards presentation & wrap up - Hand over to Cathy Byrne to speak about 2024 conference	
17.45	Conference conclusion	Vacate the venue AEC by no later than 6.30pm on Wednesday 15 th November

Thursday 16th November		
7.00-16.00	Optional Field trip - Stirling Ranges and Twin Creeks	