

**AES 2014 Conference - 50th anniversary "Celebrating the next 50 years of Australian Entomology"
Sunday 28 September – Wednesday 1 October 2014 PROGRAM**

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
Key to symbols * (student prize entry) and \$ (CHAEC prize entry)

Time	Sunday 28 September
From 16:00	Registration - posters put up
14:00 17:00-19:00	CHAEC Meeting Welcome reception including the opening of The Wildlife and Botanical Artists Inc. Insect Art exhibition. Wines supplied by Lerida Estate

MONDAY 29 September

Time	Monday 29 September Ian Wark Theatre Shine Dome	Monday 29 September Sir Roland Wilson Building Room 1.02	Monday 29 September Sir Roland Wilson Building Room 2.02
from 08:00	Registration		
08:30	Opening Ceremony including a presentation from Catriona Jackson - CEO of Science and Technology Australia Chair: David Yeates		
08:40	Housekeeping		
08:45 – 09:30	PLENARY: May Berenbaum - Predicting the future challenges of entomology - lessons from the past		
09:30 - 09:45	Symposium: Chemical Ecology Chair: Martin Steinbauer Paul Cunningham: Using plant odours to control polyphagous pests – could we benefit from a different perspective?	Symposium: Australian beetle systematics - honouring John F Lawrence Chair: Rolf Oberprieler Rich Leschen Advancing Coleoptera Systematics	
09:45 - 10:00		Rolf Oberprieler: The beetle fauna of the Talbragar Fish Bed	
10:00 - 10:30	Morning Tea - Shine Dome	Morning Tea - Shine Dome	Morning Tea - Shine Dome
10:30 - 12:15	Symposium: Chemical Ecology Chair: Martin Steinbauer	Symposium: Australian beetle systematics - honouring John F Lawrence (contd)	Symposium: Information Processing in Insects Chair: Jochen Zeil
10:30 - 10:45	Kevin Farnier*: Host-finding in psyllids: Are <i>Eucalyptus</i> -feeding psyllids anosmic?	Stephen Cameron: Phylogeny of Scarab beetles: A molecular dating analysis reveals diversification trends	Barbara Webb: A computational model of the insect mushroom body can account for ant route memory in complex environments

10:45 - 11:00	Andrew Hayes: Host tree influences on longicorn beetle attack in subtropical <i>Corymbia</i>	Adam Slipinski: Phylogeny and classification of the beetle families classified in the Cerylonid Series (Coleoptera: Polyphaga: Cucujoidea)	
11:00 - 11:15	Rebecca Miller: Hot and Smelly: Thermogenesis and the chemical ecology of pollination in endemic Australian Araceae	Hermes Escalona: Phylogeny and biogeography of Boganiidae (Coleoptera, Cucujoidea)	Jochen Zeil: Visual Homing
11:15 - 11:30	Renae Forbes*: Plant traits influence the functional role of two understory shrubs for native insects	Rich Leschen: Gondwanan Brown Beetles (Coleoptera: Cryptophagidae: Cryptophaginae): We like them	Ken Cheng: Combining sky and Earth: three ant species integrate celestial and terrestrial sources of directional information
11:30 - 11:45	Owen Webb*: Exploiting behaviour to create novel deterrents for the Queensland Fruit Fly (<i>Bactrocera tryoni</i>)	John Marris\$: Flat beetles in a flat land: A review of the Australian Cucujidae (Coleoptera)	Patrick Schultheiss: Searching behaviour in insects
11:45 - 12:00	Martin Steinbauer: Settling down to dine on a dioecious Gondwanan relict: why are psyllid nymphs more abundant at the base of branchlets?	Eric Matthews: A newly constituted Notogean tribe of Tenebrionidae (Coleoptera)	Chloe Raderschall*: Head roll stabilisation in bull ants <i>Myrmecia pyriformis</i> during twilight
12:00 - 12:15	Umar Lubanga*: Chemical Cues, Mate Attraction and Assessment in a Psylloid	Kimberli Pullen / Rolf Oberprieler: Discovering the Australian weevil fauna	
12:15 - 12:30	Simon Lawson: Sex pheromones of cossid moths: emerging pests of Australian and overseas <i>Eucalyptus</i> plantations.	Samuel Brown*\$: Evolution of female secondary sexual structures of New Zealand broad-nosed weevils (Coleoptera: Curculionidae)	
12:30 - 13:30	Lunch - Shine Dome	Lunch - Shine Dome	Lunch - Shine Dome
	Symposium: Chemical Ecology (contd) Chair: Martin Steinbauer	Symposium: Australian beetle systematics - honouring John F Lawrence (contd) Chair: Adam Slipinski	Symposium: Information Processing in Insects (Contd) Chair: Jochen Zeil
13:30 - 13:45	Syed Rizvi*: Effect of <i>Botrytis cinerea</i> -infected leaves and berries of <i>Vitis vinifera</i> on the ovipositional preference and larval performance of <i>Epiphyas postvittana</i>	Sara Pinzon-Navarro: Comparing herbivore guilds: seed-feeding weevils from different continents	Heiner Römer: Auditory information processing in insects under real world conditions
13:45 - 14:00	Alice Del Soccoro: Attract-and-kill for the diamondback moth, <i>Plutella xylostella</i> in canola	Remarks on the symposium by John Lawrence	
14:00 - 14:15	Alex Il'ichev: Survival of oriental fruit moth females under 30-years long mating disruption	Symposium: How have molecular data supported, enhanced or overturned existing ideas in insect systematics and biogeography Chair: Matthew Krosch Matthew Krosch: Symposium overview: the rise and rise of molecular data in insect science	Matthew Symonds: The costs of pheromone signalling in female moths
14:15 - 14:30	Chair: Martin Steinbauer KEYNOTE Myron Zalucki: From natural history	Andy Austin: Evolution of the Australian parasitoid hymenopteran fauna – a window into the Southern Hemisphere insect biota	Stephen Trowell: Olfactory detection and discrimination: Engineering lessons from an insect

14:30 - 14:45	to continental scale perspectives: Contributions of Australian Entomologists to Ecology - a play in three acts	Matthew Krosch: Welcome to the jungle: a Review of (insect) evidence for eastern Australia's major biogeographical barriers to Mesic forest restricted taxa	Rod Peakall: The sexual exploitation of thynnine wasps by deceptive signals emitted from Australian orchids
14:45 – 15:00			Fiorella Ramirez Esquivel*: Miniaturisation in ants: size, number and distribution of antennal sensilla
15:00 - 15:30	Afternoon Tea - Shine Dome	Afternoon Tea - Shine Dome	Afternoon Tea - Shine Dome
	General Contributed Papers Chair: John La Salle	Symposium: How have molecular data supported, enhanced or overturned existing ideas in insect systematics and biogeography (contd) Chair: Matthew Krosch	Symposium: Information Processing in Insects (Contd) Chair: Jochen Zeil
15:30 - 15:45	Guiron Ang*: <i>Ménage à trois</i> : complicated three-way interactions between plant, pest and parasitoid	Michael Shackleton: DNA barcoding reveals hidden diversity among Australia's Trichoptera (Caddisflies)	Misha Vorobyev: Bee colour vision in relation to flowers colours
15:45 - 16:00	Michaela Purcell: A hidden world revealed: using MicroCT scanning to see inside a gall	Mark Blacket: DNA-based identifications reveal multiple introductions of the vegetable leafminer <i>Liriomyza sativae</i> (Diptera: Agromyzidae) into the Torres Strait Islands and Papua New Guinea	
16:00 - 16:15	John La Salle: Advances in managing images of insect specimens in biological collections	Penelope Mills*: Evolution of cryptic species within the Australian gall-inducing scale insect genus <i>Apiomorpha</i> (Sternorhyncha: Coccoidea: Eriococcidae)	Yuri Ogawa: Trichromatic vision in the Australian bull ant
16:15 - 16:30	KEYNOTE Murray Fletcher: The History of the Australian Entomological Society	LI-Xin Eow*: The Molecular Phylogeny of the Fungal Spore-feeding Thrips Subfamily Idolothripinae (Thysanoptera; Phlaeothripidae)	Darrell Kemp: A conceptual framework for the study of coloration in nature
16:30 - 16:45		Yuvarin Boontop*: Signatures of invasion: an integrated approach to revealing the spread of Melon Fly, <i>Bactrocera cucurbitae</i> , (Diptera: Tephritidae) across SE Asia and the West Pacific	Marie Herberstein: Sexual signals for the colour-blind: cryptic female mantids signal quality through brightness
16:45- 17:00		Peter Cranston: Australians in the Andes	Paul Cooper: Can an extra lobe of the cricket salivary gland act as an alternative endocrine transport system?
17:00 – 18:00	Poster Presentations - Shine Dome		
Free evening – own arrangements			

Tuesday 30 September

Time	Tuesday 30 September Ian Wark Theatre Shine Dome	Tuesday 30 September Sir Roland Wilson Building Room 1.02	Tuesday 30 September Sir Roland Wilson Building Room 2.02
from 08:00	Registration		
08:30	Shine Dome - A history Prof Sue Meek		
08:40	Chair: David Yeates <i>Housekeeping</i>		
08:45 – 09:30	PLENARY: Oliver Niehuis - Inferring deep insect phylogenetic relationships using data from genomes and transcriptomes: research initiatives, methods, results, and prospects		
09:30 - 9:45	Symposium: Biological Control in the Asia-Pacific Region Chair: Bill Palmer KEYNOTE: Andy Sheppard: 100 years of continually successful weed biological control in Australia	Symposium: Phylogenomics - a peek over the horizon at big data Chair: David Yeates David Kainer: The effects of partitioning on phylogenetic inference	
09:45 – 10:00		Karen Meusemann: Four-cluster likelihood mapping - testing for incongruent signal in large phylogenomic datasets	
10:00 - 10:30	Morning Tea - Shine Dome	Morning Tea - Shine Dome	Morning Tea - Shine Dome
10:30 - 12:15	Symposium: Biological Control in the Asia-Pacific Region (contd)	Symposium: Phylogenomics - a peek over the horizon at big data (contd)	Symposium: Information Processing in Insects (Contd)
10:30 - 10:45	<i>Bill Palmer/ Barbara Barratt: IOBC Global and the Asia and Pacific Regional Section (APRS)</i>	<i>Lars Jermiin: AliStat and SymTest: Two Methods for Surveying Phylogenomic Data</i>	<i>Michael Dickinson: Sensory-motor integration in the flight behavior of Drosophila</i>
10:45 - 11:00	Mark McNeill: Biological control of exotic pasture weevil pests in New Zealand agriculture: learning from experience to inform the future.	Michael Woodhams: Mathematically consistent DNA models for time-inhomogeneous mutation	
11:00 - 11:15		David Yeates: Inferring the relationships of early Dipteran lineages using transcriptomic data	Bruno van Swinderen: Insect attention
11:15 - 11:30	Stephen Goldson: Exotic pests and biological control in New Zealand broadacre pasture; success hoisted by its own petard?	Stephen Cameron: Integrating mitogenomic and transcriptomic phylogenetics in insects	Madeleine Beekman: Different bees, different needs – how nest site requirements have shaped the decision-making processes in homeless bees (<i>Apis</i> spp)
11:30 - 11:45	Leigh Pilkington: Biological control past, present and future in the greenhouse industry?	Andreas Zwick: In search of hexapod origins: Capturing phylogenetic signal from serine with 21-amino-acid models	Andy Barron: Choice, decision and uncertainty in honey bees (<i>Apis mellifera</i>)
11:45 - 12:00	Barbara Barratt: The Convention on Biological Diversity 'Access and Benefit-Sharing' protocol: Will it obstruct biological control?	Meng Mao*: Higher level phylogeny of the Hymenoptera inferred from mitochondrial genomes	Yorianta Sasaerila: Effect of shade on the susceptibility of two varieties of <i>Canna edulis</i> Kerr to defoliators
12:00 - 12:15	Mark Hoddle: Biocontrol of Glassy-Winged Sharpshooter in French Polynesia: A Major	Nathan Lo: <i>Blattabacterium</i> function, genome degradation and loss in primitive termites	

12:15 - 12:30	Success in the South Pacific	Seraina Klopstein: Directional evolution in hymenopteran morphology	
12:30 - 13:30	Lunch - Shine Dome	Lunch - Shine Dome	Lunch - Shine Dome
	Symposium: Biological Control in the Asia-Pacific Region (Contd) Chair: Leigh Pilkington	Symposium: Phylogenomics - a peek over the horizon at big data (contd) Chair:	
13:30 - 13:45	Matthew Purcell: The role of gall formers as biological control agents of the broad-leaved paperbark tree <i>Melaleuca quinquenervia</i> in Florida USA	Thomas Buckley: Using transcriptomes to reconstruct phylogeny and molecular evolutionary processes in New Zealand insects	
13:45 - 14:00	David Hunter: The use of the fungus <i>Metarhizium acridum</i> to control locusts and grasshoppers	Contributed Papers: Systematics Chair: Andy Austin	
14:00 - 14:15	Don Sands: Rising threats from <i>Arundo donax</i> : Australian contribution to a successful US project	Robert Mesibov: 50 years of new Australian insects: publishing and authorship trends	
14:15 - 14:30	Gurion Ang*: <i>Trichogramma chilonis</i> Ishii: A potential biological control agent of <i>Crocidolomia pavonana</i> in Samoa	Cathy Car: A most ingenious paradox	
14:30 - 14:45	Jacqui Todd: Selection of non-target species for risk assessment of biological control agents: testing a decision-support system	Brian Heterick: Hot Ants – A Taxonomic revision of the genus <i>Melophorus</i> (Hymenoptera: Formicidae)	
14:45 – 15:00	Tao Wang*\$: The effects of temperature on the development and mortality of <i>Eretmocerus warrae</i> (Nauman & Schmidt)	Brad Rundle: An innovative approach promoting entomology and molecular biology to the next generation of scientists	
15:00 - 15:30	Afternoon Tea - Shine Dome	Afternoon Tea - Shine Dome	
15:30 - 15:45	Shengyong Wu: Effects evaluation of entomopathogenic fungus <i>Beauveria bassiana</i> on predatory mite and biological control of their shared pest <i>Frankliniella occidentalis</i>	Contributed Papers: Systematics Chair: David Yeates Jeffrey Skevington: Putting Australian Flower Flies (Diptera: Syrphidae) into a World Phylogenetic Context	
15:45 - 16:00	Chair: Murray Fletcher KEYNOTE Nancy Schellhorn: Arthropods in Agricultural Landscapes: Challenging and Supporting Food and Fiber Production	Andrew Young*\$: A Revision of the Australian Flower Flies (Diptera: Syrphidae)	
16:00 - 16:15		Bryan Lessard: The legacy of Ian Mackerras in Australian Diptera systematics	
16:15 - 16:30		Catherine Byrne: Why the Archiearinae (Geometridae) are no longer considered archaic and recent work on a revision of the montane Tasmanian archiearines.	
16:30 - 17:30	Australian Entomological Society AGM		

18:30 - 22:30	18:30 - 22:30 CONFERENCE DINNER Old Parliament House	18:30 - 22:30 CONFERENCE DINNER Old Parliament House	
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Wednesday 1 October

Time	Wednesday 1 October <i>Ian Wark Theatre Shine Dome</i>	Wednesday 1 October Sir Roland Wilson Building Room 1.02	Wednesday 1 October Sir Roland Wilson Building Room 2.02
from 08:00	Registration		
08:40	Chair: David Rowell Housekeeping		
08:45 – 09:30	PLENARY: Ryszard Maleszka - Insect research in the postgenomic era: beyond the DNA sequence		
09:30 - 9:45	<u>Symposium: Ecosystem services delivered by insects and other invertebrates</u> Chair: Saul Cunningham Sarina MacFadyen: Optimizing for multiple benefits requires an understanding of functional connectivity of habitats for ecosystem service providers	<u>Symposium: Insects as tools in forensic investigations</u> Chair: Bryan Lessard KEYNOTE James Wallman: History, accomplishments and challenges of forensic entomology in Australia	
09:45 – 10:00	Yi Feng*: Towards biological control of a generalist insect herbivore: the activities of generalist parasitoids are segregated between crop and adjacent non-crop habitats		
10:00 - 10:30	Morning Tea - Shine Dome	Morning Tea - Shine Dome	Morning Tea - Shine Dome
10:30 - 12:15	<u>Symposium: Ecosystem services delivered by insects and other invertebrates (contd)</u> Chair: Saul Cunningham	<u>Symposium: Insects as tools in forensic investigations (contd)</u> Chair: James Wallman	Student Workshop Dr Tseen Khoo 10:30 - 11:30
10:30 - 10:45	Maarten Van Helden: Soil management and ecosystem services in grapes	Julianne Farrell*: Carrion Café –using insects to determine post mortem intervals in Queensland	
10:45 - 11:00	Philip Barton: Species traits explain contrasting diversity dynamics of beetles and ants at carrion patches	Aidan Johnson: Maggot massing: problems and solutions for the forensic entomologist	
11:00 - 11:15	Manu Saunders: Wild pollinators in almond plantations in the Victorian mallee	Bryan Lessard: Molecular methods in forensic entomology in Australia	
11:15 - 11:30	Katja Hogendoorn: Of bees and burns: the distribution of the green carpenter bee <i>Xylocopa aeratus</i> in relation to fire-history on Kangaroo Island	KEYNOTE Stephen Doggett: Medical Entomology in Australia, 1964-2014	
11:30 - 11:45	Timothy Sutton*: Vulnerability of a fig – pollinator system to climate change		

11:45 - 12:00	Saul Cunningham: Phenology of a bee community in an agricultural landscape near Canberra		
12:00 - 12:15	Phil Carne Prize Presentation	David Lilly*: Protecting The Future: Understanding Insecticide Resistance In Field Populations Of Bed Bugs In Order To Preserve Insecticidal Control Solutions	
12:15 - 12:30	Nicholas Fountain-Jones: Examining the effects of distance from mature forest and succession on beetle community recolonisation using species, functional trait and phylogenetic approaches	Kai Dang*: Evolution of <i>kdr</i> -type resistance in <i>Cimex</i> . Who you will be sleeping with in the future?	
12:30 - 13:15	Lunch - Shine Dome	Lunch - Shine Dome	Lunch - Shine Dome
	Contributed Papers: Biosecurity Chair: Anthony Clarke	Contributed Papers: Systematics & ecology Chair: Sarina MacFadyen	Contributed Papers: Ecology Chair:
13:30 - 13:45	Mark Schutze: Requiem for a fruit fly: the end of the road for <i>Bactrocera papayae</i> Drew & Hancock and <i>Bactrocera invadens</i> Drew, Tsuruta, & White (Diptera: Tephritidae). But what does it mean for Australia?	Emily Johnston*: South Australia's Arboviruses: results and methods from the first large-scale FTA® card arbovirus survey	Aidan Hall*: Coevolution between bacterial endosymbionts and their psyllid hosts of the <i>Cardiaspina</i> genus (Hemiptera: Psyllidae)
13:45 - 14:00	Solomon Balagawi: Comparative demography of a specialist and generalist fruit fly: implications for host use and pest management	Geoff Baker: How does landscape management influence <i>Helicoverpa</i> abundance & the risk of Bt resistance ?	Giselle Muschett*: War and Peace: seasonal variation in male conflict in the chameleon grasshopper (<i>Kosciuscola tristis</i>)
14:00 - 14:15	Jaye Newman*: Shape up or ship out: can we alter <i>Bactrocera tryoni</i> (Froggatt) (Diptera: Tephritidae) wing shape to affect sexual performance?	Sarah Tassell*: The impact of the non-native superb lyrebird on Tasmanian invertebrate assemblages	Piotr Trebicki: Climate change and the spread of vector-borne diseases: insight into BYDV and the aphid pathosystem.
14:15 - 14:30	Thilini Ekanayake*: What does Queensland fruit fly, <i>Bactrocera tryoni</i> (Froggatt), do when the sun goes down?	Beatriz Dader*: Impact of UV-A radiation on the performance of aphids and whiteflies and on the leaf chemistry of their host plants	Sohail Qureshi*\$: "Habitat Manipulation" - An option for higher pumpkin yield?
14:30 - 14:45	Olivia Reynolds: Molecular Identification of Immature Parasitoids	Timothy Sutton*: Dispersal and inbreeding in a fig-pollinating wasp and its parasitoid	Tuyet Luong*: Starvation time, recovery and possible Bt detection behaviour of susceptible and resistant <i>Helicoverpa armigera</i> (Hübner) neonates
14:45 - 15:00	Ian Naumann: Technical capacity building for biosecurity in the Asia-Pacific region: Are we making a difference?	Aidan Hall*: Unravelling mummies: using molecular diagnostic tools to explore complex host-parasitoid relationships	Disna Gunawardana: Giant Willow Aphid – a new Aphid on willows in New Zealand
15:00 - 15:30	Afternoon Tea - Shine Dome	Afternoon Tea - Shine Dome	Afternoon Tea - Shine Dome

	Contributed Papers: Biosecurity (Contd) Chair: Leigh Pilkington	Contributed Papers: Systematics and ecology (Contd)	Stephen Doggett: Photography Workshop
15:30 - 15:45	Bernie Dominiak: Revised Fruit Fly Quarantine Distances for Domestic and International Trading	Mackenzie Kwak*: Two birds with one stone: offsetting carbon dioxide emissions and sustaining native insect diversity	
15:45 - 16:00	Alan Flynn: Auckland City of Incursions: Where the show never stops	Sophie Harrison*: Systematics and biogeography of the mygalomorph spider genus <i>Blakistonia</i> (Idiopidae) from semi-arid Australia	
16:00 - 16:15	John La Salle: Extracting rich information from 3D image libraries	Mark Wong*: Exploring Phenotypic Variation in Populations of the Funnel-web Spider <i>Atrax sutherlandi</i> .	
16:15 - 16:45	CLOSING CEREMONY - SHINE DOME Alvin Simmons: Invitation to the 2016 Congress of Entomology, Florida USA Stephen Cameron: Invitation to the 2015 Australian Entomological Society Conference * Student Prize Award * CHAEC Prize Award * Photography and Illustration Prize Awards		

THURSDAY 2 October

<p>Workshop title: DNA target enrichment in phylogenomics - molecular and bioinformatic principles</p> <ul style="list-style-type: none"> • Oliver Niehuis / Manuela Sann - Zentrum für Molekulare Biodiversitätsforschung, Zoologisches Forschungsmuseum Alexander Koenig, Bonn, Germany. • When: Thurs 2 Oct, 9am-5pm. • Where: Research School of Biology, ANU - Gould Meetings Room (Daley Road, Acton, Bldg 116 Rm 246). http://cba.anu.edu.au/news-events/dna-target-enrichment-phylogenomics-workshop
<p>PaDIL workshop</p> <ul style="list-style-type: none"> • Thursday 2 October, 9am-3:30pm • Scarth Room, University House, 1 Balmain Cres, Acton ACT 2601 • Pre-registration required - http://www.pbcrc.com.au/communications/events

POSTER PRESENTATIONS AES 2014

1	Atlas Moth Conservation Network: A new community group to recover a threatened species in the Northern Territory	Michael Braby
2	The effect of temperature on <i>Aphidius gifuens</i> (Hymenoptera: Aphidiidae) and <i>Diaeretiella rapae</i> Hymenoptera:Aphidiidae)	Wenlong Chen
3	Phylogeny of subfamilies Macropsinae and Megophthalminae (Hemiptera: Cicadellidae) from China based on partial DNA data	Renhuai Dai
4	Studying <i>Myzus persicae</i> performance and feeding behaviour, and associated plant viruses under increasing CO ₂	Beatriz Dader
5	From death to dust – using insects to determine post mortem intervals in Queensland	Julianna Farrel
6	A review of necrophagous insects colonising human remains in south-east Queensland	Julianna Farrel
7	Impacts repeated high extreme temperatures on thermal tolerance, metabolism and total protein profile in green peach aphid, <i>Myzus persicae</i> (L.) (Hemiptera: Aphididae)	Behnaz Ghaedi
8	Bush Blitz in Tasmania, summer 2014	Simon Grove
9	Spatial variation in the parasitoid assemblage of a Wattle gall wasp	Marie Henriksen
10	Flying doctors - bees deliver biological control -a new technique for Australian horticulture	Katja Hogendoorn
11	Coexistence of minicircular and a highly rearranged mtDNA molecule suggests that recombination shapes mitochondrial genome organization	Meng Mao
12	From plantings to the paddock: are ground-dwelling beetles and beneficial arthropods moving through fragmented agricultural landscapes?	Katherina Ng
13	Can pre-release supplementation increase the success of Sterile Insect Technique programs for the Queensland fruit fly, <i>Bactrocera tryoni</i> (Froggatt)?	Olivia Reynolds
14	Responses of pest and non-pest fruit flies (Tephritidae: Dacinae: Dacini) to new lures in northern Australia	Jane Royer
15	Morphological comparison of Lord Howe Island Stick Insects originating from the Ball's Pyramid population and the extinct Lord Howe Island population	Sarah Silcocks
16	Biodiversity and ecosystem services for sustainability	Jacqui Todd
17	Long-term monitoring of in-crop aphid populations in south eastern Australia, as a component of a model to predict incidence of <i>Beet western yellows virus</i> in field crops.	Piotr Trebicki
18	The control efficiency of <i>Orius similis</i> (Heteroptera: Anthocoridae) to <i>Frankliniella occidentalis</i> (Thysanoptera:Thripidae)	Prof Junrui Zhi
19	Contrasting success of two introduced <i>Microctonus</i> spp (Hymenoptera: Braconidae) biocontrol agents in Waikato pastures.	Philippa Gerard

20	The role of abiotic factors for the fluctuation of Jassid (<i>Amrasca biguttula biguttula</i> (Ishida) population on Aubergine (<i>Solanum melongena</i> L)	Muhammad Ali
21	<i>Delicious honey, sticky propolis, productive pollen</i> : Antimicrobial products of the stingless bee nest	Jenny Shanks
22	Cooled propylene glycol preserves DNA of remote field collected insects for next generation sequencing analysis	Hamish Patrick
23	Molecular phylogeny of the Australian jumping plant lice and lerp insects (Hemiptera: Psylloidea) reveals host specificity	Gary Taylor
24	Eucalypt-feeding psyllids use colour to locate the choicest leaves: What looks good must also taste good	Kevin Farnier
25	Native and invasive springtail interactions in a novel ecosystem	Morgan Lythe
26	Studies of the susceptibility of <i>Aedes aegypti</i> from Timor-Leste to synthetic pyrethroids	Stephen Frances
27	Monitoring the fitness and dynamics of <i>Wolbachia</i> -infected <i>Aedes aegypti</i>	Heng Lin Yeap