

Monday 3:15pm Parallel Sessions

Symposium: Taxonomy Australia: meeting the challenge of the Decadal Plan (session 6)		Room 1: Cinema Chair: Andy Austin	Plants (session 7)		Room 2: T2 Chair: John Clarkson
15.15	Erinn Fagan-Jeffries	Two perspectives on the Decadal Plan: public engagement, and the plight of parasitoid wasps	15.15	Shelley Rowntree (S)	Clarifying the <i>Lepidosperma laterale</i> assemblage (Cyperaceae) in north-eastern New South Wales
15.45	Keith Bayless	Systematics of tiny black acalyprate flies as case studies for challenges in Australian biodiversity research	15.30	Sangay Dema (S)	A species-level phylogeny of eastern Australian <i>Phebalium</i> Vent. sect. <i>Phebalium</i> Duretto & Heslewood (Rutaceae; Zanthoxyloideae)
16.00	Mark Harvey	Meeting the challenge of the Decadal Plan: the taxonomic documentation of the Australian arachnid fauna.	15.45	Phil Garnock-Jones (online)	Heterodichogamy in <i>Ascarina lucida</i> (Chloranthaceae)
16.15	Rachael King	Making the Australian crustaceans known – the decadal plan and the generational challenge	16.00	Declan Blackburn (S)	An investigation of Asteliaceae (Asparagales) systematics based on whole chloroplast genome sequencing
16.30	Lisa Kirkendale (online)	Meeting the challenge of the Decadal Plan- A bivalve's eye view	16.15	Aiden Webb	Twisted flowers and tales to match: phylogenetic inference of Australian <i>Caesia</i> (Asphodelaceae, Hemerocallidoideae)
16.45	END		16.30	Rob Smissen (online)	Dealing with allopolyploidy in the genomic age: a pragmatic approach using amplicon sequencing of COS markers in Australasian <i>Lepidium</i>
			16.35	Shelley Rowntree (S)	Phylogenomic analysis of the generic limits of <i>Chrysocephalum</i>
			16.40	Matthew Barrett	<i>Triodia</i> hummock grass systematics, hybridization and polyploidy (Poaceae: Chloridoideae)
			16.45	END	

Tuesday 11am Parallel Sessions

	Symposium: Teaching and capacity-building (session 8)	Room 1: Cinema Chairs: Andrew Thornhill, Lyn Cook		Communities (session 9)	Room 2: T2 Chair: Elena Kupriyanova
11:00	Andrew Thornhill	Introduction	11:00	Yi-Kai Tea	Illuminating the mesophotic: taxonomy on the hidden half of coral reefs
11:05	Lyn Cook	Systematics education and training at the tertiary level: a case for an integrated approach	11:15	Brock Hedges (S)	Environmental DNA metabarcoding tools for freshwater conservation: parallel characterisation of vertebrate and invertebrate communities
11:15	Joanne Birch	How to train a systematist? A status check of plant and fungal systematics training at Australasian Universities	11:30	Nick Murphy	The unknown highly diverse and endemic invertebrate communities of forest floors in south-eastern Australia threatened by the new fire regime
11:25	Andy Austin	The role of short courses and workshops in systematics postgraduate and ECR training	11:45	Hosna Ara Chordhury Nisha (S)	<i>Serendipita</i> fungi from Australian orchids as possible barley root endophytes
11:35	Ben Parslow	Taxonomists in training: the feasibility of learning from the literature, or lack of it.	12:00	Sadia Ayyub (S)	Soil-mediated effects of <i>Eucalyptus viminalis</i> dieback on plant performance and associations with mycorrhizal assemblages.
11:50	Bronywn Collins	Training the Future: 30 Years of the Volunteer Botanical Training Program	12:15	Hilary Pearl	Abiotic correlates with diversity and distinctiveness in Sunshine Coast heathlands: moisture, old landscapes, and ancient mounds
12:00	Mike Rix	The role of museums in training the next generation of systematists – challenges and opportunities	12:20	Brooke Raphael (S)	A new species of endophytic <i>Coprinopsis</i> from subtropical rainforest in south-east Queensland
12:10		Panel discussion	12:25	Helen Armstrong (S)	An enigmatic snapper parasite (Trematoda: Cryptogonimidae) found in an unexpected host
12:30		END - LUNCH	12:30		END - LUNCH

Tuesday 1:15pm Parallel Sessions

	Biosecurity and biocontrol (session 10)	Room 1: Cinema Chair: Juanita Rodriguez		Population genomics (session 11)	Room 2: T2 Chair: Katharina Nargar		Phylogeny and Taxonomy (session 12)	Room 3: Drama Theatre Chair: Mitzzy Pepper
13:15	Patricia Lu-Irving	Characterising the invasive <i>Lantana camara</i> complex using a population genomic approach	13:15	Patrick Fahey	Landscape genomics of the Eastern Red Gums (<i>Eucalyptus</i> sect. <i>Exsertaria</i> subser. <i>Erythroxyton</i>) in New South Wales: parapatric speciation or a legacy of population isolation?	13:15	Mike Rix	Taxonomy, biogeography and the evolution of twig-lining behaviour in the trapdoor spider genus <i>Idiosoma</i> (Mygalomorphae: Idiopidae): the challenge of documenting one of Australia's most diverse spider genera
13:30	James Buxton	The taxonomic potential of integrating morphological and molecular approaches to enhance ant (Hymenoptera, Formicidae) identifications for biosecurity: bridging the gap between DNA sequences and reliable species-level confirmation	13:30	Todd McLay	Genetic differentiation between sympatric sister species of eucalypts	13:30	Tim Hammer	Delineating the Dilleniaceae: An update on the taxonomy and systematics of <i>Hibbertia</i> (Dilleniaceae)
13:45	Penelope Mills	Phylogenetics of Australian archaeococcoid scale insects to assist in decision making for classical biological control	13:45	Robb Eastman-Densen (S)	Lonely on Limestone: A Conservation Genomics Study of <i>Gentianella calcis</i> (New Zealand) With Taxonomic Implications	13:45	Kerry Ford	<i>Carex kirkii</i> s.l. Petrie (Carex section <i>Inversae</i> Kük., Cyperaceae). Two new rare species from the Eastern South Island of New Zealand
14:00	Tareva-Chine Atkin-Zaldivar (S)	<i>Coccygidium</i> ? I hardly know 'em: A taxonomic revision of the genus <i>Coccygidium</i> throughout Australia	14:00	Jessie Prebble	Assembling the genome of rātā Moehau and applications for other NZ Metrosideros	14:00	Sofia Samper Carro	OZBONEPROT: new protein sequences for australian marsupials with applications to zooarchaeological and palaeontological samples
14:15	Ryan O'Donnell (S)	Rise up, <i>Rhizoctonia</i> : moving to one fungus, one name in the Cejpomycetaceae (Agaricomycetes; Cantharellales)	14:15	Stephen Zozaya	Using numerous contact zones to delimit species and calibrate a reference-based taxonomy in a challenging lizard group (<i>Heteronotia</i>)	14:15	Jaever Santos	The Auckland University of Technology Lab for Cephalopod Ecology and Systematics (ALCES): an introduction to the lab with a highlight on two new bottletail squids (Sepiariidae: Sepioloidea) from New Zealand
14:30	Teresa Lebel (online)	Confirming the identity of a toxic exotic <i>Lepiota</i>	14:30	Molly Bloomfield (S)	Population Genetics, Phylogeography and Taxonomy of Critically Endangered <i>Leptecophylla oxycedrus</i> and <i>L. juniperina</i>	14:20	Karla Garcia (S)	Newly discovered gall-inducing scale insects (Cocomorpha: Apiomorpha) on York gum (<i>Eucalyptus loxophleba</i>) in the Southwest Australian Floristic Region
14:35	Daniel Huston	Australian cereal cyst nematode (<i>Heterodera australis</i>): taxonomic woes and biosecurity implications	14:35	Zjon Coleman (S)	Assessing Population Structure and Potential Genetic Declines in the Cycad <i>Macrozamia moorei</i>	14:25	Gareth Holmes	Don't trust a plastid for taxonomic advice: Strong incongruence between nuclear and plastid ddRAD derived phylogenies of the southern holly-leaf grevillias
14:40	END - AFTERNOON TEA		14:40	Zixiong Zhuang (S)	The first study to discover population-level genomic structural variants (SVs) in wild populations of <i>Eucalyptus viminalis</i>	14:30	Anne-Cecile Colin (S)	Revealing the extent of phylogenomic discordance in the <i>Eucalyptus</i> rapid radiation using BUSCO genes
			14:45	END - AFTERNOON TEA		14:35	END - AFTERNOON TEA	

Tuesday 3:15pm Parallel Sessions

	Data and biodiversity informatics (session 13)	Room 1: Cinema Chair: Tom May		Palaeo and Evolution (session 14)	Room 2: T2 Chair: Marcel Cardillo
15:15	Endymion Cooper	Your (Australian) National Species List	15:15	Keaghan Yaxley	Global variation in the relationship between avian phylogenetic diversity and functional distance
15:30	Hervé Sauquet	AusTraits: Australia's plant trait database	15:30	Emily Roycroft	Speciation across biomes: rapid diversification with reproductive isolation in the Australian delicate mice
15:45	Volker Framenau	To describe or to just document: making a case for the Fauna Portal using money spiders (Araneae: Linyphiidae)	15:45	Tara Evans (S)	Declining rainforests and arid emergence: Ancient Kurrajongs (Brachychiton) of South Australia's Late Miocene-Pliocene (7 – 2.3 Mya)
16:00	Emma Holvast (S)	The current state of the field in using continuous shape data for phylogenetic reconstruction: A systematic review	16:00	Jürg Schönenberger	Angiosperm flowers reached their highest morphological diversity early in their evolutionary history
16:15	Chris Ware	The value of targeted biological surveys: an assessment of Australia's Bush Blitz program	16:15	Julian Herting	Impact of fossils on reconstructing ancestral flowers in <i>Ericales</i>
16:30	Shelley James	Backlogs and botanical survey: streamlining data delivery in an under-collected region for taxonomy and systematics	16:30	Andrew Rozefelds	Volcaniclastic silcrete floras in eastern Australia provide new fossil evidence of the fern genus <i>Pteridium</i> (bracken)
16:35	Yumiko Baba	A historical trend in the South Pacific Regional Herbarium (SUVA), Fiji, realised	16:35	Simon Tierney	Phylogenomics of South West Pacific nocturnal foraging bees
16:40	Hannah McPherson	Can we use DArT sequencing to identify our herbarium collections?	16:40	Maggie Haines	Insights into global brittle star diversity using a targeted exon capture approach
16:45	Peter Jobson	Now we are 50: A comparison of the botanical activities of Australia from 1973 and now	16:45	Giulia Perina	Extraordinary diversity and patterns of distribution in tiny subterranean crustaceans: Parabathynellidae (Bathynellacea) of Western Australian arid zone
16:50	END - Break		16:50	END - Break	

Wednesday 11am Parallel Sessions

	Cryptic species (session 15)	Room 1: Cinema Chair: Michelle Guzik		Symposium: Genomics of Australian Plants 1 (session 16)	Room 2: T2 Chair: David Cantrill
11:00	Mike Crisp	Two cryptic conifer species separated by a mid-Miocene aridity barrier in southern Australia	11:00	Alexander Schmidt-Lebuhn	Inferring the Australian Angiosperm Tree of Life: paralogy, phylogenetics, and technical hiccups along the way
11:15	Alicia Toon	The complex history of the <i>Macrozamia plurinervia</i> complex helps explain the challenges of delimiting species in this group	11:15	Theo Allnut (online)	Bioinformatic aspects of the GAP reference genome project
11:30	Frances Guard (S)	The velvet parachute (<i>Marasmius elegans</i>): a surprisingly variable species across its range with an uncanny QLD doppelganger	11:30	Trevor Wilson	A first perspective on evolution and diversification of Australasian <i>Teucrium</i> (Lamiaceae) and improved insight to selecting contemporary genomic techniques
11:45	Andrew McDougall (S)	Resolving the taxonomy of the <i>Caladenia patersonii</i> and <i>C. reticulata</i> (Orchidaceae) species complexes in South Australia	11:45	Luis Williamson (S)	Evolution of Australian sundews (<i>Drosera</i> spp.)
12:00	Scott Cutmore	Morphological constraint obscures richness: a mitochondrial exploration of cryptic richness in <i>Transversotrema</i> (Trematoda: Transversotrematidae)	12:00	Caroline Puente-Lelievre	Expanding the Epacrid Tree of Life
12:15	Chen-Hsin Fan (S)	Is there cryptic species diversity in <i>Apiomorpha strombylosa</i> (Tepper)?	12:15	Anze Zerdoner Calasan	Evolutionary history of Australian <i>Chenopodium</i> alliance
12:20	Torin O'Connell (S)	First assessment of cryptic species in the gall-inducing scale insect <i>Apiomorpha calycina</i> (Coccomorpha: Eriococcidae)	12:30	END - Lunch	
12:25	Nicole McMullen (S)	Unravelling <i>Ochrogaster lunifer</i> , a cryptic species complex			
12:30	END - Lunch				

Wednesday 1:15pm Parallel Sessions

	Hyperdiverse taxa (session 17)	Room 1: Cinema Chair: Erinn Fagan-Jeffries		Symposium: Genomics of Australian Plants 2 (session 18)	Room 2: T2 Chair: Caroline Puente-Lelievre
13:15	Rose Andrew	Combinatorial speciation and ongoing gene flow in <i>Eucalyptus</i>	13:15	Daniel Murphy	Acacia phylogenomics: an initial assessment using the Angiosperms353 target capture bait set
13:30	Shannon Tetley (S)	Systematics and Taxonomy of Australian Mesostoinae on Kangaroo Island using mitogenomes (Braconidae: Mesostoinae)	13:30	Francis Nge	Reconciling incongruence and implications for taxonomy/systematics in the phylogenomic era
13:45	Yun Living Li	From phylogenomics to macroevolution: evolution across the adaptive landscape in a hyperdiverse beetle radiation	13:45	Benjamin Anderson	Is Angiosperms353 an effective tool for population genomics?
14:00	Andre Wanderley do Prado	Taxonomy and systematics of the artoriine wolf spiders (Araneae: Lycosidae): is <i>Artoria</i> monophyletic?	14:00	Laura Simmons	Discoveries in the <i>Cassia tomentella</i> and <i>Samadera bidwillii</i> species complexes provide information for conservation
14:15	Pedro de Souza Castanheira	Taxonomy and systematics of the 'backbourkiine' spiders, a putative new subfamily of orb-weavers (Araneae, Araneidae)	14:15	Harvey Orel (S)	Conservation genetics of Critically Endangered <i>Zieria</i> (Rutaceae): confirming existing species boundaries and identification of a species new to science
14:30	Peisong Tian (S)	Towards a Taxonomic Revision of <i>Trachymela</i> (Coleoptera: Chrysomelinae)	14:30	END - AFTERNOON TEA	
14:35	Consolata Nanjala (S)	Patterns of diversification and trait evolution in Australian orchids			
14:40	END - AFTERNOON TEA				

Wednesday 3:15pm Parallel Sessions

	Dark taxa (session 19)	Room 1: Cinema Chair: Camille Truong		Methods (session 20)	Room 2: T2 Chair: Steve Cooper
15:15	Michelle Guzik	Building a custom barcode reference library for subterranean groundwater	15:15	Jeremy Wilson	The wishbone spiders of Eastern Australia (Mygalomorphae: Anamidae: <i>Aname</i>): A workflow for the description of 40+ new species in one year
15:30	Bryan Lessard	Museum genomics resolves cryptic species in the Australasian arbovirus vector mosquito <i>Culex annulirostris</i> Skuse, 1889 (Diptera: Culicidae)	15:30	Alicia Grealy	Cost-effective target sequence capture through drastically miniaturised DNA libraries and automation – a head-to-head test
15:45	Ying Luo (S)	Searching for a leaf in a forest: A taxonomic and phylogenetic revision of leaf mining moths <i>Phyllocnistis</i> (Lepidoptera: Gracillariidae) in Australia	15:45	Juanita Rodriguez	Comparative Analysis of Whole Genome Sequencing and Target Capture of Ultra Conserved Elements for Phylogenetic Studies in Hymenoptera
16:00	Nerida Wilson	The National Biodiversity DNA Library: an authoritative DNA reference library for Australia's species	16:00	Alexander Skeels	Phylogenomics of a megadiverse Australian plant radiation (subtribe Hakeinae, family Proteaceae) reveals entangled gene trees and widespread discordance
16:15	Camille Truong	Enlightening the Australian "dark" Fungi: Linking DNA barcodes to fungal names	16:15	Andrew Thornhill	World Spatial Phylogenetics of the Angiosperms
16:30	END		16:30	END	
16:35	FINAL REMARKS, STUDENT AWARDS				
16:55	CONFERENCE END				