



# ECOLOGY: SCIENCE FOR PRACTICAL SOLUTIONS CONFERENCE PROGRAM



FRIDAY, NOVEMBER 22-SATURDAY, NOVEMBER 23, 2019

## PRE-CONFERENCE FIELD TRIP & WORKSHOP

7:30 - 16:00	FIELD TRIP (Pre-conference) to the Wild-West coastline to forests and sub-alpine grasslands	
9:00 - 17:00	2-DAY WORKSHOP: <b>Near-term Ecological Forecasting for Early Career Researchers</b>	Venue: UTAS Inveresk Campus, Room 118, the Rory Vos Lecture Theatre, School of Architecture, Building C

SUNDAY, NOVEMBER 24, 2019

## PRE-CONFERENCE POST-GRADUATE DAY / REGISTRATION AND WELCOME DRINKS

9:00 - 17:00	Pre-conference <b>Post Graduate Day</b>	Venue: UTAS Inveresk Campus, Room 108, the Rory Vos Lecture Theatre, School of Architecture, Building C
9:00 - 17:00	ESA Planning Day	Venue: Hotel Grand Chancellor, Room 6
13:00 - 17:00	Conference Registration and Speaker Preparation open	Venue: Hotel Grand Chancellor foyers
17:30 - 18:30	Welcome Drinks at QVMAG (a short walk from the conference venue)	Venue: QVMAG, 2 Invernay Road

MONDAY, NOVEMBER 25, 2019

## PLENARY SESSION ONE

ROOM	Princess Theatre	CHAIR	Perpetua Turner / Amy Hahs
9:00 - 9:15	Welcome and Conference Opening, including Welcome to Country: <b>Fiona Hughes</b>		
9:15 - 9:45	<b>AERA presentation:</b> <i>Fostering conservation through eco-evolutionary networks and transdisciplinary collective action</i> , <b>Professor Menna Jones</b> , University of Tasmania		
9:45 - 10:15	<b>Indigenous Keynote presentation:</b> <i>Indigenous views and preferences to define user-friendly information</i> , <b>Dr Cass Hunter</b> , CSIRO		

10:15 - 11:00 Morning Tea (Monday), Hotel Grand Chancellor					
	<b>(1A) SYMPOSIUM: Using new research results to better manage Tasmanian devil facial tumour disease</b>	<b>(1B) SYMPOSIUM: Ecologists Weaving Knowledge on Country</b>	<b>(1C) SYMPOSIUM: New methods and applications in urban ecology (part 1-Technology/Methods)</b>	<b>(1D) SYMPOSIUM: Field-based manipulative experiments for understanding environmental change (part 1)</b>	<b>(1E) OPEN FORUM: Conservation</b>
ROOM	Chancellor 1	Chancellor 2	Chancellor 3-4	Chancellor 5	Chancellor 6
CHAIR	Hamish McCallum	Rosemary Hill and Emma Woodward	Caragh Threlfall	Susanna Venn	Jodie Price
1100-1115	<b>Dr Rodrigo Hamede</b> ARC Fellow, University of Tasmania More than 20 years since Tasmanian devil facial tumour disease emergence: lessons for disease management ☺	<b>Dr Emma Woodward</b> Research Scientist, CSIRO Our Knowledge, Our Way: New guidelines to support knowledge-sharing developed by and for Indigenous land-managers ☺	<b>Ms Monika Egerer</b> PhD Candidate, University of California, Santa Cruz Symposium introductory remarks ✨	<b>A/Prof. Mark Hovenden</b> University of Tasmania Warming an extremely carbon-dense, high altitude ecosystem stimulates a massive increase in ecosystem carbon emissions	<b>Miss Elise Verhoeven</b> Honours Student, University of Technology Sydney Identifying species of high conservation value for restoring ecosystem function after wildfire ✨
1115-1130	<b>Dr Beata Ujvari</b> Deakin University Insights into the immune system of the Tasmanian devil ( <i>Sarcophilus harrisii</i> )	<b>Dr Rosemary Hill, CSIRO, Mr Graham Atkinson, Dhelkunya Dja Land Management Board, and Mr Rodney Carter</b> , Group Chief Executive, Dja Dja Wurrung Clan Aboriginal Corporation Dja Dja Wurrung Cultural Authority underpins effective knowledge weaving	<b>Dr Amy Hahs</b> The University of Melbourne Landscape scale disturbance mosaics: the relevance of fire ecology frameworks in urban systems	<b>Professor Glenda Wardle</b> Professor of Ecology and Evolution, The University of Sydney Too much or too little: plant responses to nutrient and drought manipulations in arid grasslands	<b>Mr Graham Fulton</b> University of Queensland & Murdoch University Spatial placement of bird nests in temperate eucalypt woodland ☺
1130-1145	<b>Dr Andrew Flies</b> ARC DECRA Fellow, Menzies Institute for Medical Research - University of Tasmania An oral bait vaccination approach for the Tasmanian devil facial tumour diseases	<b>Ms Briohny Jackman and Ms Adena Williams</b> , Birriliburu and Matuwa and Kurrara Kurrara Rangers Right way science, why is it important and how does it shape how we work	<b>Dipl.ing. Mathias Scholz</b> Senior Scientist, UFZ - Helmholtz Centre for Environmental Research Challenges in using Ecosystem Services in Floodplain Restoration: Example of the Leipzig's Urban Forest Germany	<b>Professor Sally Power</b> Professor Western Sydney University Pastures and climate extremes (PACE): Understanding pasture responses to elevated temperature and drought	<b>Dr Angela Dean</b> Senior Research Fellow Queensland University of Technology What is the role of community members in conservation? Prioritising community conservation actions
1145-1150	<b>Mr Calum Cunningham</b> University of Tasmania Devils protecting bandicoots: Tasmanian devils limit feral cats and protect smaller prey ☺ ✨	<b>Mr Daniel Sloane</b> PhD Student, Macquarie University An Eco-cultural Investigation of coastal floodplain flora in North-East Arnhem Land ✨	<b>Dr Alessandro Ossola</b> Research Coordinator, Macquarie University Challenges and opportunities for urban ecology in the big data era ☺	<b>Professor Alfredo Huete</b> Professor, University of Technology Sydney Phenocam-observed pasture responses to variable rainfall: experiences from the DRI-GRASS drought experiment	<b>Mr Christoph Parsch</b> PhD Student, University of Göttingen Papua at a crossroads: A plea for strategic conservation planning ☺ ✨
1150-1155					<b>Dr Mike Young</b> , Department of Water and Environmental Regulation The Index of Biodiversity Surveys for Assessments delivers unprecedented access to Western Australian biodiversity data
1155-1200					<b>Dr Kaline De Mello</b> , Postdoc Researcher, University of São Paulo

					A dynamic tool to balance environmental and economic demands for native vegetation compensation
1200-1215	<b>Dr Douglas Kerlin</b> , Postdoctoral Research Fellow, Griffith University Shifts in Tasmanian devil development and life history in response to devil facial tumour disease	<b>Ms Shaina Russell</b> Macquarie University "We love our billabongs": towards understanding the relational ontology of Country in Indigenous northern Australia 🌍 ✨	<b>Dr Yung En Chee</b> , Senior Research Fellow, The University of Melbourne Spatially-explicit quantitative modelling and action prioritisation for instream biodiversity in Melbourne's Healthy Waterways Strategy 🌍	<b>Ms Kirsty Milner</b> University of Technology Sydney Time is of the essence: shifting heat stress thresholds can happen quickly and markedly ✨	<b>Ms Simone Stevenson</b> PhD Candidate, Deakin University Testing biodiversity indicators with the Madingley model 🌍 ✨
1215-1220	<b>Mr David Hamilton</b> PhD Candidate, University of Tasmania Using behaviour and social networks to better understand Tasmanian devil facial tumour disease 🌍 ✨	<b>Mrs Michelle McKemey</b> PhD Candidate, University of New England Re-igniting Aboriginal Cultural Burning in South-eastern Australia: A Review 🌍 ✨	<b>Ms Blythe Vogel</b> The University of Melbourne How citizen science benefits people and pollinators in cities 🌍 ✨	<b>Assoc Prof Andy Leigh</b> Plant Ecologist, University of Technology Sydney High heat tolerance does not always mean lower thermal vulnerability: why water status matters	<b>Dr Sheryn Pitman</b> , Program Manager Inspiring South Australia, South Australian Museum Understanding how nature works: five pathways towards a more ecologically literate world 🌍
1220-1225	<b>Ms Camila Espejo</b> PhD Candidate, University of Tasmania Eco-immunology of the Tasmanian devil-DFTD interaction: the value of DFTD-derived exosomes 🌍 ✨		<b>Dr Rochelle Steven</b> , Postdoctoral Researcher, University of Queensland Remarkable ability of urban householders to identify nocturnal mammal species 🌍		
1225-1230	<b>Billie Lazenby</b> Tasmanian government Save the Tasmanian Devil program Panel Discussion		<b>Ms Julia Schiller</b> , PhD Candidate, The University of Melbourne How feasible are standard survey methods for assessing biodiversity in human-engineered habitats? ✨		<b>Ms Catherine Ross</b> , PhD Candidate, ANU Fenner School of Environment and Society The role of sanctuaries in research and conservation of ecosystem engineers ✨
1230-1235		<b>Professor Michael Douglas</b> NESP Northern Hub Leader University of Western Australia Conceptualising hydro-socio-ecological relationships ensures more integrated and inclusive environmental flows assessments 🌍	<b>Miss Lauren Jakob</b> , Honours Student, University of Tasmania Citizen Science and remote cameras reveal influences on urban wildlife presence and risk-sensitive behavior ✨	<b>Dr Brett Howland</b> , Ecologist, ACT Government Investigation into the role of fire to manage and restore long-unburnt natural temperate grasslands 🌍	<b>Dr Anna Richards</b> Research Scientist, CSIRO Land and Water Applying dynamic ecosystem models to natural resource management: case studies from the AusEcoModels framework
1235-1240			<b>Dr Manuel Esperon</b> , Postdoctoral Research Fellow, Western Sydney University Functional and physiological adaptations of urban trees along a climatic gradient		
1240-1245			<b>Mr Manuel Lequerica</b> Doctoral Candidate, The University of Sydney Hoverflies as ecosystem service providers in an urbanizing world ✨		

1245-1250		DISCUSSION	<b>Ms Monika Egerer</b> PhD Candidate, University of California, Santa Cruz Harnessing drone technology to measure urban garden topography at different spatial scales ✨	<b>Ms Merinda Day-Smith</b> Honours Student, La Trobe University Is grass just grass? An Investigation of Variation in Flammability of Savanna Grass Species 🌍 ✨	<b>Professor Martine Maron</b> The University of Queensland Target-based ecological compensation as an alternative to biodiversity offsets	
1250-1255			DISCUSSION	<b>Ms Susanna Bryceson</b> PhD candidate, La Trobe University How deep is your shade? Investigating effects of light on Australian native grasses ✨		
1255-1300				<b>Mr Jinyan Yang</b> Postdoc Research Fellow, Hawkesbury Institute for The Environment Predicting grassland responses to rainfall in Australia: combining traits and processes in an ecophysiological model		
13:00 - 14:00	Lunch (Monday)					
	<b>(2A) OPEN FORUM: Agricultural landscapes</b>	<b>(2B) SYMPOSIUM: Indigenous Ecological Knowledge (Part 1)</b>	<b>(2C) SYMPOSIUM: New methods and applications in urban ecology (part 2- conflict &amp; health; coexistence)</b>	<b>(2D) SYMPOSIUM: Field-based manipulative experiments for understanding environmental change (part 2)</b>	<b>(2E) OPEN FORUM: Feral predators</b>	
ROOM	Chancellor 1	Chancellor 2	Chancellor 3-4	Chancellor 5	Chancellor 6	
CHAIR	Kerry Bridle	Gerry Turpin	Emily Flies	Sally Power	Roweana Hamer	
1400-1405	<b>Ms Lena Alice Schmidt</b> Hawkesbury Institute for the Environment, Western Sydney University Assessing floral preferences for native pollinators in agricultural landscapes 🌍 ✨	<b>Karajarri Rangers</b> , Karajarri Traditional Lands Association Appeasing Bluetongue - Managing fire for wildlife in the Great Sandy Desert	<b>Dr Dave Kendal</b> University of Tasmania Introductory remarks	<b>Dr Susanna Venn</b> Senior Lecturer, Deakin University The ecological responses to manipulating snowpack for 60 years 🌍	<b>Mr William Geary</b> Deakin University Predator responses to fire: from ecosystems to global patterns ✨	
1405-1410						<b>Dr Pia Lentini</b> Research Fellow, The University of Melbourne Factors driving and mitigating human-flying fox conflict in Australia's urban areas
1410-1415						
1415-1420	<b>Dr Liz Milla</b> CSIRO/NCMI The potential of European honeybees ( <i>Apis mellifera</i> ) as biomonitors of plant communities 🌍	<b>Miss Monica Fahey</b> , PhD Candidate, Macquarie University Multidisciplinary approaches to retrace the dispersal of rainforest trees by ancient Australians 🌍 ✨		<b>Mrs Casey Kirchoff</b> PhD Student, University of New South Wales Winter climate change in the Snowy Mountains: Alpine vegetation responses to experimentally decreased snow cover ✨	<b>Dr Michelle Hall</b> Senior Ecologist – West, Bush Heritage Australia Investigating seasonal variation in predator-prey dynamics for integrated feral pest management	
1420-1425						<b>Dr Camilo Ordonez</b> , Research Fellow, University of Melbourne The

			impact of urban tree removal in parks and streets on people and wildlife ☺		Humane and targeted: Felixers enable feral cat and fox control in agricultural and periurban environments
1425-1430					<b>Ms Hayley Geyle</b> , Research Assistant, Deakin University and <b>Mr Derek Sandow</b> , Parks Victoria Imperfect detection, road use, and other considerations for improving monitoring of introduced mammalian predators ✨
1430-1435	<b>Ms Sofia Lopez-Cubillos</b> University of Queensland Crop expansion or active restoration? Using pollination services for economic development and habitat conservation ✨	<b>Amos Atkinson</b> Dja Dja Wurrung Enterprises Understanding Country outcomes from ecosystem management practices		<b>Ms Emma Sumner</b> PhD Candidate, Deakin University Reduced soil moisture does not affect thermal tolerances in alpine plants ☺ ✨	<b>Ms Lily Van Eeden</b> PhD Student, The University of Sydney Exploring historic and contemporary dingo-grazier relationships to promote coexistence ☺ ✨
1435-1440			<b>Dr Cadhla Firth</b> Hot North Career Development Fellow, James Cook University Pathogens, people, animals, or the environment: what determines zoonotic disease risk in cities?	<b>Mr Rocco Notarnicola</b> Australian National University Plasticity of high vs. low elevation genotypes in response to future temperatures and extreme events ☺ ✨	
1440-1445				<b>Ms Shuo Wang</b> The Australian National University Germination or dormancy? Response strategies of an Australia alpine plant species to warming ☺ ✨	
1445-1450	<b>Dr Manu Saunders</b> University of New England Network modularity and ecosystem function in agricultural landscapes	<b>Winston Thompson</b> , Elder and <b>Jana Daniels</b> , Yugul Mangi Ranger Yugul Mangi Faiya En Sisen Kelenda and Savanna Burning in South East Arnhem Land IPA		<b>Ms Rebekah Grieger</b> PhD Student, Griffith University Sink or Swim? Coastal freshwater wetland vegetation response to rising sea level ✨	<b>Mr Matthew Rees</b> PhD student, University of Melbourne Does controlling foxes increase the population density of feral cats? ☺ ✨
1450-1455			<b>Dr Lizzy Lowe</b> Postdoctoral Researcher Macquarie University Understanding the social drivers of household insecticide use		
1455-1500				<b>Ms Jayne Hanford</b> PhD Student, The University of Sydney Unintended impacts of managing urban wetlands for conservation ☺ ✨	<b>Dr Hugh Davies</b> Charles Darwin University Does feral cat predation suppress mammal populations in northern Australian savannas? ☺
1500-1505	<b>Ms Madeline Young</b> Ecologist, Anne Clements And Associates Stable isotopes in an unstable environment: Aspects of insectivorous bat ecology using $\delta^{13}C$ and $\delta^{15}N$ ☺	<b>Mr Eduardo Maher</b> Nyamba Buru Yawuru Ranger Possible unintended impacts of feral cat control within an Indigenous Protected Area		<b>Miss Simone-Louise Yasui</b> PhD Student, Queensland University of Technology Efficacy of traditional and contemporary management strategies on buffel grass abundance in Australia's spinifex grasslands ☺ ✨	
1505-1510			<b>Dr Dave Kendal</b> University of Tasmania Is green always good? Land use mediates the effect of greenness on emotions		

1510-1515			<b>Miss Gabriella Allegretto</b> Honours Student, The University of Tasmania Environmental injustice: Wealth and urban green space quality ✨	<b>Miss Talia Humphries</b> PhD Candidate, Federation University Australia Restoration of temperate grasslands through management of invasive species ( <i>Nassella trichotoma</i> ) at a landscape scale ✨	
1515-1520	<b>Mr Andrew Wright</b> Whitehaven Coal Feel the Burn: Using Ecological Burns to IGNITE the Ecological Restoration of Former Agricultural Landscapes	DISCUSSION	<b>Dr Penelope Jones</b> Menzies Institute for Medical Research, University of Tasmania Aerial urban ecology – new methods and approaches to understanding what's floating in the air	<b>Mr Travis Britton</b> PhD Candidate, University of Tasmania Drought damage decreases with size and is strongly impacted by neighbourhood composition in two eucalypts 🌱 ✨	<b>Dr Anke Frank</b> Zoological Research Museum Alexander Koenig Naiveté in Tasmanian wildlife towards introduced predators – evidence via citizen science
1520-1525	<b>Mr Matthew Fielding</b> PhD Student, University of Tasmania Ravens exploit wildlife roadkill and agricultural landscapes but do not affect songbird assemblages 🌱 ✨		<b>Mr Martin Lockett</b> PhD Student, The University of Melbourne Trophic effects of artificial light at night on the Eucalyptus-Lerp psyllid system 🌱 ✨	<b>Ms Rose Brinkhoff</b> PhD Student, University of Tasmania The determinants of optimal leaf area in eucalypt plantations ✨	
1525-1530	<b>Mrs Cara Sambell</b> La Trobe University Conservation in changing rural Australia: Important landscape attributes for diverse bird communities 🌱 ✨		<b>Ms Rachel Oh</b> University of Queensland An extinction of nature experiences is not an inevitable consequence in growing cities ✨	<b>Mr Simon Branigan</b> Marine Restoration Coordinator, The Nature Conservancy Restoring the lost shellfish reefs of Australia	
15:30 - 16:00	Afternoon Tea (Monday)				
	<b>(3A) SYMPOSIUM: Integrated landscape management in the Tasmanian midlands agricultural region and biodiversity hotspot</b>	<b>(3B) SYMPOSIUM: Indigenous Ecological Knowledge (Part 2)</b>	<b>(3C) SYMPOSIUM: New methods and applications in urban ecology (part 3-design and biodiversity)</b>	<b>(3D) SYMPOSIUM: Field-based manipulative experiments for understanding environmental change (part 3)</b>	<b>(3E) OPEN FORUM: Technology</b>
ROOM	Chancellor 1	Chancellor 2	Chancellor 3-4	Chancellor 5	Chancellor 6
CHAIR	Menna Jones	Gerry Turpin	Monika Egerer	Susanna Venn	Angela Gardner
1600-1615	<b>Dr Matthew Appleby</b> Senior Ecologist South-east Australia Bush Heritage Australia Midlands Conservation Project: partnerships with farmers to achieve lasting conservation outcomes	<b>Ms Jodie Ward and Dr Rachel Paltridge</b> , Kiwirrkurra Indigenous Protected Area Desert Support Services Cat Kuka for Conservation of Ninu and Tjalapa on the Kiwirrkurra IPA 🌱 ✨	<b>Dr Alexander Felson</b> University of Connecticut Shaping urban ecosystems through research-based design using designed experiments and ecological planning	<b>Prof David Keith</b> University of NSW & NPWS Measuring convergence towards restoration targets: a case study on livestock exclusion	<b>Dr Ian Cresswell</b> University of Newcastle Shaping the next national State of the Environment report for 2021

1615-1630	<b>Assoc Professor Chris Burridge</b> University of Tasmania Drying up the gene pool: weather predicts genetic diversity in a fungivorous marsupial	<b>Professor Michael Douglas</b> NESP Northern Hub Leader, University of Western Australia Making stronger voices for Wagiman people through research 🌍	<b>Ms Ann Grattidge</b> Environmental Consulting Conservation and modelling insights for a threatened rodent in an urbanirural strong hold, Northern Australia 🌍	<b>Dr Katherine Moseby</b> Kimba Introducing the Sepesphere: Conservation fences create layers of species specific wildlife gradients	<b>Associate Professor Scott Johnson</b> ARC Future Fellow, Hawkesbury Institute for the Environment Let's get physical: silicon causes a grass to switch defence strategies against herbivores	
1630-1645	<b>Dr Elisa Raulings</b> Greening Australia If we build it well, will they use it?	<b>Dr Roan Plotz</b> , Victoria University Indigenous Ecological Knowledge enhances scientific communication and climate resilience in Oceania 🌍	<b>Ms Annie Aulsebrook</b> PhD Candidate, The University of Melbourne Streetlights disrupt sleep in black swans 🌍 ✨	<b>Mr Chris Jolly</b> PhD Candidate, University of Melbourne Island introduction of an endangered predator induces dramatic changes in native rodent populations 🌍 ✨	<b>Ms Cara Penton</b> PhD Candidate, Charles Darwin University Sharing is Caring: Northern Australian arboreal mammal community tree hollow use ✨	
1645-1650	<b>Mr Julian Von Bibra</b> Landowner perspective on change and conservation	<b>Norman Graham</b> Ranger, Arakwal and NSW National Parks and Wildlife Service Effective cross-cultural conservation planning for significant species 🌍	<b>Dr Freya Thomas</b> Research Fellow RMIT University The role of context in small green space design	<b>Dr Sacha Jellinek</b> Senior Ecologist Greening Australia Developing a Climate Adjusted Provenancing Plot Network in Australia	<b>Mr Al Healy</b> Senior Scientist, Department of Environment and Science, Qld Fine resolution landscape monitoring using satellite imagery	
1650-1655	<b>Dr Kirstin Proft</b> Postdoctoral Research Fellow, University of Tasmania From individual choices to landscape connections: modelling animal movements at multiple scales to inform restoration		<b>Miss Cara Parsons</b> Griffith University Carved hollows provide creative homes: Enhancing habitat value with chainsaw carved hollows in subtropical Australia 🌍 ✨			<b>Ms Pia Schoenefuss</b> PhD Student, Queensland University of Technology The comparative utility of eDNA versus traditional methods as ecological tools in top-predator dietary analysis 🌍 ✨
1655-1700	<b>Dr Leon Barmuta</b> Associate Professor, University of Tasmania Headwater stream-associated vertebrates in the Tasmanian Midlands		<b>Dr Jayanti Ray-Mukherjee</b> Assistant Professor, Azim Premji University Understanding stray-dog distribution and their resources: a case-study from a peri-urban neighborhood of Bangalore, India 🌍			<b>Miss Ana Gracanin</b> University of Wollongong The Selfie Trap: targeted camera trapping of small arboreal mammal species ✨
1700-1705	<b>Mr Glen Bain</b> PhD Candidate, University of Tasmania Land-use change effects on bird communities of the Tasmanian Midlands ✨	DISCUSSION	<b>Ms Katherine Berthon</b> Iconscience Group, RMIT University Exploring context dependency of plant-insect interactions in urban squares ✨	<b>Dr Hugh McGregor</b> Post-doctoral Researcher Arid Recovery The short-term response of feral cats to rabbit population decline	<b>Dr Stephanie Courtney Jones</b> Associate Researcher University of Wollongong Using behaviour to inform conservation management: Daily activity patterns of spotted-tailed quoll using camera traps	
1705-1710			<b>Ms Alison Haynes</b> PhD Candidate, University of Wollongong Small plants, big ideas: a review of potential applications for moss-dominated biocrusts 🌍 ✨			
1710-1715			<b>Dr Dave Kendal</b> University of Tasmania Facilitated discussion with <b>Ms Monika Egerer</b> , University of California, <b>Dr Alexander Felson</b> , University of Connecticut, <b>Dr Emily Flies</b> , The University of Tasmania, <b>Dr Diane</b>			
1715-1720	<b>Dr Peter Harrison</b> Post-doctoral Research Fellow in Restoration Genetics, University of Tasmania			<b>Mr Jeroen Jansen</b> PhD Candidate, University of Tasmania Reducing the impacts of feral cats on CWR species by manipulating ecosystem processes 🌍 ✨		

1720-1725	Establishing resilient ecological restoration in the face of future climate uncertainty		<b>Pataki</b> , University of Utah and <b>Dr Caragh Threlfall</b> , The University of Melbourne	<b>Mr Mark Le Pla</b> Ecologist, Conservation Ecology Centre Non-invasive genetic sampling to measure the efficacy of fox control in the Otway Ranges 📍	
1725-1730				<b>Miss Jessica Ward-Jones</b> Ecologist, SMEC Impacts of feral horses and deer on an endangered woodland of Kosciuszko National Park 📍	
1730-1745	<b>Mr Nicolo Camaretta</b> PhD Student, The University of Tasmania Using remote sensing to monitor the development of structural attributes in restoration plantings ✨				
1745-1750	<b>Ms Zara Marais</b> PhD Student, The University of Tasmania Using natural capital accounting to build a business case for trees on farms ✨				
1750-1755	<b>Ms Adelina Latinovic</b> The University of Tasmania Management of pollination services in the Tasmanian Midlands: Native pollinator, remnant vegetation and crop interactions ✨				
1755-1800	<b>Dr Louise Wallis</b> Senior Lecturer, The University of Tasmania Productive partnerships: species hotels				
18:00 - 19:30	<b>Barbara Rice Memorial Poster Session</b>				

## TUESDAY, NOVEMBER 26, 2019

<b>PLENARY SESSION TWO</b>			
ROOM	Princess Theatre	CHAIR	Chloe Sato / Amy Hahs
9:00 - 9:30	<b>President's Address</b> , Don Driscoll, President, Ecological Society of Australia		
9:30 - 10:00	<b>Keynote presentation: ESA Next Generation Ecologist Award presentation</b> , The challenge of returning nature to cities: Insights from research in urban Australia, <b>Dr Caragh Threlfall</b> , University of Melbourne		



10:00 - 10:30	<b>Keynote presentation:</b> Bringing ecology into Australia's environmental Law Reform, <b>Dr Adriana Verges</b> , University of New South Wales				
10:30 - 10:35	Launch of the Restoration Guidelines for Shellfish Reefs, <b>The Nature Conservancy</b>				
10:35 - 11:00	Morning Tea (Tuesday)				
	<b>(4A) SYMPOSIUM: Managing Phytophthora and other invasive pathogens for biodiversity values</b>	<b>(4B) SYMPOSIUM: Practitioner engagement for onground outcomes (part 1)</b>	<b>(4C) OPEN FORUM: Invasives</b>	<b>(4D) OPEN FORUM: Fire</b>	<b>(4E) SYMPOSIUM: Communicating ecology through art (part 1)</b>
ROOM	Chancellor 1	Chancellor 2	Chancellor 3-4	Chancellor 5	Chancellor 6
CHAIR	Giles Hardy	Sacha Jellinek & Chloe Sato	Anne Kerle	Glenda Wardle	Kirsten Parris
1100-1105	<b>Dr Geoff Pegg</b> QLD Department of Agriculture and Fisheries Myrtle rust – impact on native Australian Myrtaceae and associated plant communities	<b>Dr Chloe Sato</b> , Research Fellow Deakin University, and <b>Dr Sacha Jellinek</b> Introduction to the ESA Practitioner Engagement Working Group  <i>Practitioner Engagement Award Winner</i> <b>Dr Phil Bell</b> , The University of Tasmania and <b>Dr Simon Cook</b> Forico Pty Ltd Controlling predation of Ptunarra brown butterfly by introduced wasps in a plantation forest estate in northwest Tasmania	<b>Dr Catherine Nano</b> Senior Scientist, Department of Environment and Natural NT Government Long-term monitoring (1976-2017) reveals ongoing Buffel grass expansion and native species decline in central Australia	<b>Associate Professor Brett Murphy</b> Associate Professor, Charles Darwin University Predicting the long-term effects of prescribed burning on tree biomass in tropical savannas	<b>Dr Leanda Mason</b> Curtin University Developing a children's book about Australian spiders: art-iculating ecological importance
1105-1110					
1110-1115					
1115-1120	<b>Dr Julie Quinn</b> Australian Government Department of the Environment and Energy A new Threat abatement plan for disease in natural ecosystems caused by <i>Phytophthora cinnamomi</i>	Prof Carla Catterall Griffith University A research-practice partnership to kickstart forest regeneration: insights after 8 years	<b>Miss Sarah Reeve</b> PhD Student Monash University Biodiversity measures matter: interpreting the structure of an invaded understorey plant community 🌍 ✨	<b>Mr Harinandanan Paramjyothi</b> PhD Student, Charles Darwin University Neighbourhood competition and fire collectively mediates tree spatial patterns in the northern Australian savannas 🌍 ✨	<b>Dr Ayesha Tulloch</b> ARC DECRA Fellow, University of Sydney Milla the pygmy possum's escape from the bushfire (with guest appearance by a hungry cat)
1120-1125					
1125-1130					
1130-1145	<b>Dr Lynette McLeod</b> University of New England Designing effective behaviour change interventions for <i>Phytophthora dieback</i>		<b>Dr Luke O'Loughlin</b> , CSIRO Identifying impact thresholds for an invasive groundcover and implications for biocontrol management	<b>Ms Annalie Dorph</b> , PhD Candidate, University of Melbourne Greater edge contrast in time since fire benefits mammal species richness ✨	<b>Ms Chereese Sonkkila</b> University of Melbourne Naturally funny: when comedy and ecology meet ✨
1145-1150	<b>Ms Catherine Dickson</b> PhD Student, Monash University Variation and drivers of island-wide dieback in the sub-Antarctic Macquarie cushion plant 🌍 ✨	<b>Mr Ben French</b> Student, University of Tasmania The Ross Patch Burning Project: challenges and opportunities in collaborating with Indigenous fire practitioners 🌍 ✨	<b>Dr Christine Schlesinger</b> Senior Lecturer, Charles Darwin University Impacts of grass invasion on removal of native shrub seeds by invertebrate and avian dispersers	<b>Ms Amy Smith</b> PhD Student, The University of Melbourne Drivers of ground-dwelling mammal diversity in a fire-prone landscape 🌍 ✨	<b>Ms Juanita Watters</b> NESP TSR Hub Liaison, Department of Environment and Energy Putting the 'rock' back in bureaucrat
1150-1155					

1155-1200				<b>Miss Meena Sritharan</b> PhD Student Australian National University Effects of fire regimes on plant rarity across different vegetation communities 🌍 ✨	
1200-1205	<b>Mr Bob Makinson</b> Vice-president Australian Network for Plant Conservation Inc. Myrtle Rust: rapid action or rapid extinctions -- it's our choice	<b>Dr Jack Pascoe</b> Conservation and Research Manager, Conservation Ecology Centre Ecologists and practitioners collaborating to set research priorities for threatened species conservation in the Otways 🌍	<b>Miss Amelia Saul</b> PhD Student, The University of Sydney We all have our limits: the relationship between population density and positive effects of aliens ✨	<b>Mr Andy Wiechnik</b> Masters Student, University of Queensland Burning Goldilocks: How to determine what fire regimes are just right for ecological communities ✨	<b>Professor Duncan Cameron</b> Director, The Institute for Sustainable Food, University of Sheffield Evaluating the potential of sci-art as a medium for public engagement: 'Gaiamycota' a case study
1205-1210				<b>Mr James Barker</b> PhD Student, University of Wollongong Are fire severity feedbacks facilitated by the shrub layer in dry sclerophyll forests? 🌍 ✨	
1210-1215				<b>Dr Claire Foster</b> The Australian National University Ecosystem engineering with fire	
1215-1220	<b>Mr Brett Dal Pozzo</b> Program Manager - Healthy Environments, South Coast NRM Inc. Implementing a state-wide <i>Phytophthora</i> dieback management and investment framework - collaborative, cross-tenure landscape scale approach	<b>Dr Katherine Tuft</b> General Manager, Arid Recovery Seeking solutions to a rusted on problem: building a multi-disciplinary collaboration	<b>Miss Tara Jalali</b> University of Melbourne Plant-Pollinator Interactions in Invasive Species ✨	<b>Dr John Morgan</b> La Trobe University Grasses and fire: the importance of hiding buds	<b>A/Prof Dieter Hochuli</b> The University of Sydney Communicating ecology through art and history
1220-1225			<b>Mr Bernardo O'Connor</b> PhD Student, The University of Adelaide Native Parasite <i>Cassytha pubescens</i> affects nutrient availability and seedling establishment of native and invasive species 🌍 ✨		
1225-1230			<b>Dr Rebecca Wheatley</b> Postdoctoral Research Fellow, University of Tasmania Could invasive species replace Australia's extinct giant marsupial herbivores and reduce fuel loads for wildfires?		
1230-1235	<b>Stuart Worboys</b> Australian Tropical Herbarium <i>Phytophthora</i> monitoring in Queensland's Wet Tropics	<b>Dr Catherine Moran</b> Ecologist Cath Moran Ecological Bringing together revegetation science and practice to prioritise replanting locations for multiple conservation objectives	<b>Ms Pauline Lenancker</b> JCU CSIRO Population origin and movement of the invasive tropical fire ant revealed by genome-wide sequencing	<b>Dr Jodi Price</b> Charles Sturt University Plant responses to the reintroduction of fire into long unburnt grassy ecosystems	<b>Ms Christina Renowden</b> Master of Environment Student University of Melbourne Shifting people's perception of biodiversity in urban environments through Art-Science communication 🌍 ✨
1235-1240	<b>Miss Kimberly Chhen</b> Student, The University of Melbourne Preying upon a pathogen: The effects of				

	species interactions on chytrid fungus ✨				
1240-1245	<b>Professor Giles Hardy</b> Centre for Phytophthora Science and Management Phytophthora cinnamomi: a biological bulldozer in natural ecosystems in Western Australia- consequences and management				
1245-1250	<b>Ms Sue Jennings</b> Owner Operator, Quarry Clean Providing Phytophthora-free gravel in the Tasmanian forests – a practical approach	<b>Dr Karen Ikin</b> , Parks and Conservation Service, ACT Government Creating in-house collaborations for improved offset management	<b>Miss Bridget Duncan</b> Edith Cowan University A genetic investigation of anticoagulant rodenticide resistance in <i>Mus musculus</i> of Western Australia	<b>Mr Tom Fairman</b> University of Melbourne Testing tolerance: how are resprouter eucalypts and their carbon stocks impacted by frequent high-severity wildfires? 🌍 ✨	<b>Dr Darren Le Roux</b> Senior Project Manager ACT Parks and Conservation Service “Living art” to offset the loss of mature trees
1250-1255		<b>Dr Philip Gibbons</b> Associate Professor, The Australian National University A model for improving the fate of old trees within urban landscapes			
1255-1300		<b>Ms Lee Harrison</b> , Ecologist, City of Melbourne The City of Melbourne’s Streetscape Biodiversity Planting Palette: Integrating Research with Capital Works			
13:00 - 14:00	Lunch (Tuesday)				
1315-1345	<b>Austral Ecology Q&amp;A session</b> – all welcome, Chancellor 6				
	<b>(5A) OPEN FORUM: Seeds and disease</b>	<b>(5B) SYMPOSIUM: Practitioner engagement for onground outcomes (part 2)</b>	<b>(5C) OPEN FORUM: Aquatic marine</b>	<b>(5D) OPEN FORUM: Climate</b>	<b>(5E) SYMPOSIUM: Communicating ecology through art (part 2)</b>
ROOM	Chancellor 1	Chancellor 2	Chancellor 3-4	Chancellor 5	Chancellor 6
CHAIR	John Morgan	Samantha Lloyd & Karen Ikin	Alan Anderson	Bec Harris	Ayesha Tulloch
1400-1415	<b>Miss Casey Taylor</b> PhD Student, University of Sydney What drives the occurrence of ticks and their wildlife hosts in urban areas? ✨	<b>Dr Samantha Lloyd</b> , SEQ Fire and Biodiversity Consortium The SEQ Fire and Biodiversity Consortium: Practitioner and Stakeholder Engagement for Improved Fire Management	<b>Mrs Darcie Leong</b> Project Officer, NRM North 10 years of TEER: Long term trends from surface water monitoring of the Tamar Estuary	<b>Mr Max Mallen-Cooper</b> University of New South Wales Tundra lichens, microclimates and encroaching shrubs: a completely objective view on why lichens are incredible 🌍 ✨	<b>Ms Zena Simone Cumpston</b> Research Fellow, Melbourne University Is this an Aboriginal place? Participatory Arts and the un-silencing of Aboriginal ecological knowledge 🌍

1415-1430	<b>Dr Ben Scheele</b> Research Fellow, The Australian National University Global impacts of chytrid fungus on amphibians	<b>Dr Noel Preece</b> James Cook University How field-based research can inform policy outcomes - Biodiversity monitoring in the Northern Savanna region	<b>Dr Matthew Low</b> Associate Professor, Swedish University of Agricultural Sciences Reef-wide declines (with local reversals) of seabird breeding populations on the Great Barrier Reef	<b>Dr Francisto Encinas-Viso</b> Research Scientist CSIRO Are Australian alpine plant-pollinator communities changing?	<b>Dr Kirsten Parris</b> , Associate Professor, The University of Melbourne Frog Fest 2019: Engaging the public with frogs through sound and song
1430-1435	<b>Mr William Green</b> University of Melbourne Predicting how thermal physiology and habitat characteristics mediate disease risk in a threatened amphibian 🌐 ✨	<b>Dr Josephine MacHunter</b> Senior Scientist, Arthur Rylah Institute for Environmental Research, Department of Environment, Land, Water and Planning Planning for ecological values in bushfire management decisions	<b>Dr Shane Blowes</b> German Centre for Integrative Biodiversity Research Mediterranean marine protected areas have higher biodiversity via increased evenness, not abundance	<b>Mr Shane Morris</b> PhD Candidate, University of Tasmania The perfect storm: Climate change and the mountain pygmy possum 🌐 ✨	<b>Ms Caitlyn Forster</b> , PhD Candidate, University of Sydney A Rose by any other name: Effective use of artificial flowers in behaviour and ecology 🌐 ✨
1435-1440					<b>Mr Daniel Nugent</b> , PhD Candidate, La Trobe University Where do Plains-wanderers wander? Understanding the movements and habitat use of a cryptic grassland bird 🌐 ✨
1440-1445					DISCUSSION
1445-1450	<b>Dr Laura Brettell</b> , Western Sydney University Pathogen associations between honey bees and native Australian pollinators	<b>Dr Tanya Bailey</b> , Research Associate, The University of Tasmania Innovative ecological restoration through a decade-long partnership between Greening Australia and the University of Tasmania 🌐	<b>Ms Jessica Bergman</b> , PhD Candidate, University of New South Wales Thermal tolerance of an environmental generalist coral species 🌐 ✨	<b>Dr Chris Pavey</b> Senior Scientist, CSIRO Land and Water Long-term monitoring reveals impacts of the big rain event in arid Australia in 2010-2011	<b>Mr Simon Gorta</b> Honours Candidate, UNSW Across the fence: avian habitat selection under land management in the Australian arid zone ✨
1450-1455	<b>Ms Susan Everingham</b> , University of New South Wales Time travelling seeds help uncover the impacts of climate change on plant species 🌐 ✨				<b>Dr Ingrid Stirnemann</b> , Flinders University Shaded out: Impacts on a mouthless golden moth on the prowl in the parliamentary triangle
1455-1500	<b>Assoc. Prof. Nicholas Williams</b> University of Melbourne Exploring habitat and seed ecology of the vulnerable Swamp Everlasting – <i>Xerochrysum palustre</i>				<b>Dr Ayesha Tulloch</b> , ARC DECRA Fellow, University of Sydney Facilitated discussion - questions for speed presenters
1500-1505	<b>Mr Joshua Hodges</b> Charles Sturt University Germination responses to fire-cues are common among 50 grassy ecosystem species representing 15 families 🌐 ✨	<b>Mr Lincoln Kern</b> Ecologist and Managing Director Practical Ecology Pty Ltd Planning adaptive management of a private native grassland reserve as an EPBC biodiversity offset	<b>Mr Coulson Lantz</b> , Student/Research Associate University of New South Wales Coral cays are washing away ✨	<b>Ms Charlotte Page</b> PhD Student, University of New South Wales High flow conditions mitigate the onset of physiological stress in corals exposed to bleaching temperatures 🌐 ✨	Panel Discussion – Communicating with Policy Makers, facilitated by <b>Ayesha Tulloch</b>
1505-1510					

1510-1515			DISCUSSION		
1515-1520	<b>Mr Richard McLellan</b> , Charles Sturt University Worth more alive than dead? The unknown ecosystem implications of 175 years of sandalwood exploitation	<b>Ms Alison Foster</b> Project Officer, National Parks and Wildlife Service, NSW WildCount: Putting broad-scale wildlife monitoring theory into practice	<b>Ms Melissa Pappas</b> , PhD Student, UNSW BEES A Recovering System: Corals Post Bleaching ✨	<b>Dr Kristen Jennifer Williams</b> CSIRO Land and Water A global review of options for renovating nature under climate change	
1520-1525	<b>Miss Sophie Baxter</b> Student, UNSW Do alpine seed bank floras reflect upslope dispersal limitation? ✨				
1525-1530	<b>Miss Elise Ringwaldt</b> , PhD Candidate, University of Tasmania The drivers of sarcoptic mange disease in bare-nosed wombats across Tasmania ✨				
1530-1535		<b>Miss Kelly Dixon</b> , PhD Candidate, Australian National University Features associated with effective biodiversity monitoring and evaluation ☺ ✨			
1535-1540		<b>Mr Tim Vale</b> , Fire Management and Policy Officer, Conservation SA Fleurieu Peninsula Swamps: successes and failures over 24 years of private landholder engagement			
15:30 - 16:00	Afternoon Tea (Tuesday)				
<b>PLENARY SESSION THREE</b>					
ROOM	Princess Theatre		CHAIR	Jodi Price	
16:00 - 16:05	Presentation of 2019 Jill Landsberg Trust Fund Scholarship, <b>Darcy Watchorn</b> , Deakin University ☺				
16:05 - 16:20	<b>2018 Jill Landsberg Trust Fund Scholarship Presentation</b> , <i>What is the impact of an exotic grass on arid ecosystems including those aspects important to Anangu people?</i> <b>Ellen Ryan Colton</b> , PhD Student, Charles Darwin University				
16:20 - 16:25	Presentation of 2019 Wiley Fundamental Ecology Award Winner,				
16:25 - 16:40	<b>2018 Wiley Fundamental Ecology Award Winner Presentation</b> , <i>Sex on the Rocks: genetic structure, pollen dispersal and recruitment in Eucalyptus caesia, a bird-pollinated tree endemic on granite outcrops</i> <b>Nicole Bezemer</b> , University of Western Australia				

16:40 - 16:55	<b>2019 Applied Forest Ecology Presentation, Summer Potvin</b> , The University of Tasmania
16:55 - 17:00	Presentation of Mike Bull Prize
17:00 - 17:05	Presentation of DPIE/ESA 2019 Awards for outstanding outreach
17:05 - 17:20	DPIE/ESA 2018 Award for Outstanding Outreach presentation
17:30 - 18:00	ESA QUEER MIXER, Lobby Bar
18:00 -19:00	ESA AGM, CHANCELLOR 6 <i>ALL WELCOME</i>
19:00 -21:00	PUBLIC LECTURE “MANAGING FIRE RISK IN TASMANIA”, PRINCESS THEATRE <i>INCLUDES ANNOUNCEMENT OF ESA PHOTO COMPETITION WINNERS</i>

## WEDNESDAY, NOVEMBER 27, 2019

### FIELD TRIPS & WORKSHOPS ALL COACHES DEPART FROM THE FRONT OF HOTEL GRAND CHANCELLOR.

8:00- 17:00	FIELD TRIP to Northern Midlands – Trip 1: Managing Native Grasslands on Beaufront	
	FIELD TRIP to Northern Midlands - Trip 2: Indigenous Management on Beaufront	
	FIELD TRIP to Rubicon Sanctuary and Brook Eden Vineyard	
	FIELD TRIP to Urban Green Zones – Using science to inform management in urban reserves	
	FIELD TRIP: TERN Ecosystem Surveillance Field Trip: Plot-based ecological monitoring in Australia’s ecosystems	
8:30 - 15:00	STEAM CIRCUS at ESA19	Chancellor 1
9:00- 16:00	WORKSHOP: Communicating real ecology through stories: a writer’s workshop	Chancellor 2
	WORKSHOP: How to successfully raise awareness of Phytophthora dieback across all tenures	Chancellor 6
	WORKSHOP: Writing for publication workshop	Chancellor 3-4
9:00- 17:00	FIELD TRIP to Lake Mackenzie - restoration of alpine vegetation after wildfire	
	WORKSHOP: Introductory concepts in spatial capture recapture	Chancellor 7
9:30 - 16:30	WORKSHOP: Taking your R skills to the next level: four great strategies for reproducible research	Chancellor 5

10:00 -12:00	WORKSHOP: National Environmental Prediction System (NEPS) Scoping Study Consultation	Chancellor 8
13:00 -16:30	WORKSHOP: Shaping the next National State of the Environment Report for 2021	Chancellor 8
18:30–19:00	<b>Holsworth Alumni Drinks, PennyRoyal</b> (coach departs Hotel Grand Chancellor at 1815) <i>Past and present recipients of a Holsworth Wildlife Research Endowment, and supervisors, are invited to attend this networking event. Even if you will not attend the Conference Dinner, we encourage you to attend this Reception if you have been a recipient of funding, or have supervised a recipient.</i>	
19:00-22:30	<b>CONFERENCE DINNER, PENNYROYAL</b> (COACHES DEPART HOTEL GRAND CHANCELLOR FROM 1830)	

## THURSDAY, NOVEMBER 28, 2019

PLENARY SESSION FOUR						
ROOM	Princess Theatre			CHAIR	Bek Christensen	
9:00 - 9:15	Launch of EMR presentation anniversary					
9:15 - 9:50	<b>Keynote presentation:</b> Advancing Ecological process conseration through ecological networks, <b>Dr Gary Tabor</b> , President, Centre for Large Landscape Conservation					
9:50 -10:30	<b>Keynote presentation:</b> A bitter pill: pharmaceutical pollution in freshwater ecosystems, <b>Dr Erinn Richmond</b> , Monash University					
10:30 -11:00	Morning Tea (Thursday)					
	<b>(6A) SYMPOSIUM: Solutions from above and below: Plant-soil research addressing climate change and biodiversity loss (part 1)</b>	<b>(6B) SYMPOSIUM: Vegetation science for decision-making (part 1)</b>	<b>(6C) OPEN FORUM: Conservation fauna</b>	<b>(6D) SYMPOSIUM: Using ecological traits of invertebrates to understand ecosystems (part 1)</b>	<b>(6E) Open Forum: Quantitative Ecology - Big data and applications</b>	
ROOM	Chancellor 1	Chancellor 2	Chancellor 3-4	Chancellor 5	Chancellor 6	
CHAIR	Adam Frew	Sarah Luxton & John Hunter	Phil Bell	Heloise Gibb	Jian Yen	
1100-1115	<b>Assoc Prof Charles Warren</b> University of Sydney Identification of key traits underpinning adaptation of soil microbes to P availability	<b>Dr. Esteban Muldavin</b> , Res. Assoc. Professor, University of New Mexico Australian vegetation classification and the International Vegetation Classification framework	<b>Dr Amy Koch</b> Forest Practices Authority Managing eagles: Effectiveness monitoring is not always as easy as it sounds	<b>Dr Eleanor Slade</b> Assistant Professor Nanyang Technological University, Singapore Using trait-based ecology to study responses of insects and their associated functions along environmental gradients	<b>Mr David Loewensteiner</b> , Department of the Environment and Energy Opportunities and Challenges of Emerging Technologies for Landscape-Scale Assessment of Restored Ecosystems	
1115-1120	<b>Miss Elizabeth Trevenen</b> , PhD Student, The University of Western Australia		<b>Mr Dejan Stojanovic</b> , Australian National University Captive breeding alters		<b>Mr Lee Belbin</b> Science Advisor, CSIRO	

	Network architecture of plant-soil interactions affects the invasibility of plant communities 🌐 ✨	<b>Dr Jeremy Groves</b> , Team Leader Native Vegetation, Department of the Environment and Energy The National Vegetation Information System (NVIS) where did it come from and where's it going?	wing shape and migration flight efficiency of a critically endangered bird ✨		Toward an International Standard for Occurrence Data Testing and Improvement
1120-1125			<b>Dr Andres Felipe Suarez-Castro</b> University of Queensland Trends of imperilled birds in protected areas of Australia <i>Video presentation, with discussion by Ayesha Tulloch</i>		
1125-1130			<b>Dr Geoffrey Smith</b> Principal Zoologist, Queensland Herbarium Ease and difficulty studying rare and threatened - black- and buff-breasted button-quails		
1130-1135	<b>Dr Yudi M. Lozano</b> Postdoc, Freie Universitaet Fungal guilds associated with grassland plant species respond differently to drought	<b>Dr Donna Lewis</b> , Department of Environment and Natural Resources Plot-based vegetation classification in the Northern Territory and compatibility with National and International classification frameworks	<b>Mr Benjamin Wagner</b> , PhD Candidate, University of Melbourne The role of climate and tree nutrition on the occurrence of greater glider in Victoria 🌐 ✨	<b>Professor Nigel Andrew</b> Professor of Entomology, University of New England Towards an Integrative Database of Functional and Ecological Traits for Scarabaeoidea dung beetles (sCARATT)	<b>Mr Dony Indiarito</b> UNSW Predicting range limits from functional traits: assessing generality of response across two continents ✨
1135-1140				<b>Mrs Shamika Prasadini Kekulthotuwage Don</b> PhD Student, Queensland University of Technology Accounting for uncertainty of predator-prey systems into mathematical model formulations ✨	
1140-1145				<b>Ms Kate Fraser</b> , PhD Candidate, University of Tasmania Epifaunal assemblages on shallow reefs: body size distribution driven by habitat availability 🌐 ✨	
1145-1200	<b>Dr Siegy Krauss</b> Senior Research Scientist Kings Park Science, DBCA Soil microbial community succession patterns over a 30-year chronosequence of post-mining forest ecosystem restoration	<b>Mr Daniel Connolly</b> , Senior Team Leader, Vegetation Classification and Ecology, Department of Planning, Industry and Environment Revisions to a large multi-region vegetation classification typology in Eastern New South Wales	<b>Dr Suzanne Prober</b> CSIRO People's perceptions of recent climate-driven ecological change in Australia	<b>Mr Kieran Murphy</b> PhD Student, Institute for Marine and Antarctic Studies Cephalopods are not fish: including trait-based cephalopod functional groups in size-structured ecosystem models is important ✨	<b>Ms Caitlan Baxter</b> Student, University of New South Wales Linking tiny organisms to remote sensing: The promise of species-level biocrust spectra ✨
1200-1205	<b>Dr Amber Churchill</b> Research Fellow, Western Sydney University Nutrient facilitation between tropical legumes and grasses under elevated CO2	<b>Mr Conrad Slee</b> PhD Candidate, Edith Cowan University <i>Meta-analysis of ~1800 flora plots to improve conservation of threatened Banksia woodlands</i> 🌐 ✨	<b>Dr Alyson Stobo-Wilson</b> , Adjunct researcher. Charles Darwin University Illuminating Den-Tree selection by an arboreal mammal using terrestrial laser scanning in Northern Australia	<b>Mr Freddie Heather</b> PhD Candidate, Institute for Marine and Antarctic Studies Global patterns of reef community size spectra ✨	<b>Dr Iadine Chades</b> Principal Research Scientist, CSIRO What do we say to species extinction? Not today



1205-1210			<b>Ms Sophie McCulloch</b> Student, University of Melbourne Evaluating long-term population age structure changes of a critically-endangered frog ✨		
1210-1215			<b>Ms Emma Henderson</b> , Griffith University Shifting the focus from nativeness to function in urban riparian vegetation management 🌍 ✨		
1215-1230	<b>Dr Megan Murray</b> , Lecturer, University of Technology Sydney Power Plants: Phytoremediation Gardens Decontaminate White Bay Power Station, NSW 🌍	<b>Ms Eda Addicott</b> , PhD Candidate, James Cook University Evaluating the Regional Ecosystem classification system used in Queensland ✨	<b>Ms Natalie Freeman</b> . PhD Student, The University of Queensland Sex and seasonal variation in foraging behaviour of the endangered northern quoll ( <i>Dasyurus hallucatus</i> ) 🌍 ✨	<b>Mr Daniel Jin</b> , PhD Student, The University of Sydney Changes in arthropod abundance with urbanisation may not predict changes in trophic interactions 🌍 ✨	<b>Ms Peggy Newman</b> , Project Manager, Atlas of Living Australia Introducing iNaturalist Australia – tapping into an online social network for improved citizen science data
1230-1235	<b>Dr Michael Renton</b> Senior Lecturer, University of Western Australia Management effects on ecological and evolutionary dynamics during co-invasion of trees and their mycorrhizal symbionts	<b>Dr Siddeswara Guru</b> TERN Towards harmonisation and integration of ecology data	<b>Mr Christopher Pocknee</b> PhD Student, The University of Queensland Saving an endangered bettong with fire ✨	<b>Mr Min Pokhrel</b> PhD Student, University of New England Native and introduced dung beetle assemblages along biogeographical gradients of northern NSW tablelands 🌍 ✨	<b>Miss Alys Young</b> Student, The University of Melbourne Mapping climate refuges using remotely-sensed imagery to inform malleefowl ( <i>Leipoa ocellata</i> ) conservation 🌍 ✨
1235-1240			<b>Dr James Lawson</b> , Postdoctoral Fellow, Macquarie University Which populations should we protect? Balancing objectives to find optimal management sites for threatened species 🌍		<b>Professor Stuart Phinn</b> , The University of Queensland Understanding terrestrial and marine ecosystems' structure, composition and function: ecology is essential for earth observation
1240-1245			<b>Ms Emma Rawling</b> Cairngorms National Park Authority Conserve, castrate or cull? Saving Scottish Wildcats threatened by a hybrid swarm		<b>Dr Nevil Amos</b> Senior Ecologist. Arthur Rylah Institute, Department of Environment, Land, Water and Planning Landscape-scale spatial and temporal modelling of ecological consequences of fire on native vegetation and fauna 🌍
1245-1250	<b>Mr Rocky Putra</b> , PhD student, Western Sydney University Super charging the relationship between legumes and nitrogen-fixing bacteria: is soil silicon the key? ✨	<b>Mr Pete Lyon</b> Information Policy Officer Australian Government Department of the Environment and Energy The Habitat Condition Assessment System: big data analytics for the state of Australia's ecosystems	<b>Mr Stephen Kearney</b> PhD Student, University of Queensland The other 80 percent: quantifying the distribution of threatened species across non-protected lands in Australia 🌍 ✨	<b>Mr James Buxton</b> PhD Student, La Trobe University The environmental predictors of ant melanisation over a bioclimatic gradient ✨	<b>Dr Tatsuya Amano</b> University of Queensland Ignoring non-English-language literature may bias ecological meta-analyses
1250-1255	<b>Dr Jim Radford</b> La Trobe University Dung and dusted: combining cows and compost to combat climate change				<b>Dr Ramona Maggini</b> , Queensland University of Technology Prioritising land for protected areas' expansion in Queensland

1255-1300	<b>Mr Jamie Waterman</b> , PhD student, Western Sydney University Dealing with messy eaters: herbivore oral secretions induce damage repair and silicon closes the wound 🌱 ⚡				<b>Professor Jane Elith</b> University of Melbourne Ecology, data and computation
13:00 -14:00	Lunch (Thursday)				
	<b>(7A) SYMPOSIUM: Solutions from above and below: Plant-soil research addressing climate change and biodiversity loss (part 2)</b>	<b>(7B) SYMPOSIUM: Vegetation science for decision-making (Part 2)</b>	<b>(7C) OPEN FORUM: Conservation</b>	<b>(7D) SYMPOSIUM: Using ecological traits of invertebrates to understand ecosystems (part 2)</b>	<b>(7E) OPEN FORUM: Quantitative Ecology - Ecological software</b>
ROOM	Chancellor 1	Chancellor 2	Chancellor 3-4	Chancellor 5	Chancellor 6
CHAIR	Anna Hopkins	Eda Addicot & Shane Chalwell	Martine Maron	Nigel Andrew	Saras Windecker
1400-1415	<b>Dr Eleonora Egidi</b> Postdoctoral Research Fellow, Western Sydney University Assessing impacts of microbial diversity and nutrient manipulations on ecosystem functioning in disturbed soils	<b>Dr John Hunter</b> , Adj Associate Professor, University of New England Azonal and alternate states: insights into classification from an endangered ephemeral wetland	<b>Ms Nicola Delnevo</b> PhD Student, Edith Cowan University Habitat fragmentation affects pollinator assemblage, pollen deposition, and reproduction in the threatened <i>Conospermum undulatum</i> (Proteaceae) 🌱 ⚡	<b>Prof David Warton</b> Professor, UNSW Sydney Recent advances in multivariate methods to study environment-trait associations. And demented accountants	<b>Mr Scott Whitemore</b> , PhD Student, University of Tasmania Automatic detection of bird species from environmental audio recordings using machine learning ⚡
1415-1430	<b>Dr Andrea Westerband</b> Postdoc, Macquarie University Photosynthetic physiology of the Australian flora over soil and climate gradients: testing least-cost theory	<b>Dr David Tierney</b> Senior Scientist, Ecosystem Management Science, DPIE, NSW Novel analyses redirect management and restoration priorities for a critically endangered community	<b>Ms Imogen Fraser</b> , Project Officer, Victorian Department of Environment, Land, Water and Planning Making good choices: drawing on the decision sciences to inform forest and fire management planning		<b>Ms Hannah Lloyd</b> , NSW Department of Planning, Industry, and Environment Saving our Species: Solving common conservation problems with decision science to save species from extinction
1430-1435	<b>Mr Hans Ammitzboll</b> , PhD Candidate University of Tasmania Logging and high-intensity fire reduces the diversity and abundance of soil microbial communities 🌱 ⚡	<b>Dr Fiamma Riviera</b> Research Associate The University of Western Australia Does using plant functional traits make post-mining restoration of kwongan shrublands more predictable?	<b>Ms Maiko Lutz</b> PhD Student, Monash University Maximising outcomes from two management approaches aimed at re-establishing a threatened fish population ⚡	<b>Assoc. Prof Heloise Gibb</b> Associate Professor La Trobe University Does the use of ecological traits improve our ability to detect environmental signals?	<b>Dr Casey Visintin</b> University of Melbourne steps: open-source software for spatially- and temporally-explicit population simulations ⚡
1435-1440			<b>Dr Josie Carwardine</b> Research Scientist, CSIRO Prioritising management strategies for biodiversity and cultural outcomes in multi-value areas		
1440-1445			<b>Dr Ascelin Gordon</b> Senior Research Fellow, RMIT University Improving the impact of impact evaluation: the challenge of estimating counterfactuals for conservation interventions		

1445-1450	<b>Ms Allison Mertin</b> Student, University of Wollongong Insights into the hidden diversity of ecosystems: Fungal endophytes of Banksia seed 🌐 ✨	<b>Dr Daniel Gwinn</b> Owner Biometric Research Informing environmental flow management of the Hattah Lakes floodplain plant community with multi-species modelling approaches	<b>Ms Amanda Lo Cascio</b> , PhD Student, The University of Melbourne Microbat diversity and connectivity in fire-prone fragmented landscapes 🌐 ✨	<b>Dr Kimberly Maute</b> Research Associate, Centre for Sustainable Ecosystem Solutions Trait regulation of arthropod responses to small pulse rainfall events in the arid-zone	<b>Mr Roozbeh Valavi</b> PhD Student, The University of Melbourne Block cross-validation for species distribution modelling: introducing the blockCV package 🌐 ✨
1450-1455			<b>Dr Megan Good</b> Postdoctoral Fellow, The University of Melbourne A general ecosystem model for woodlands of southern Australia 🌐		
1455-1500			<b>Ms Natasha Cadenhead</b> Research Assistant, The University of Melbourne Making business work for biodiversity: Leveraging the financial sector to improve conservation outcomes 🌐		
1500-1505	<b>Mr Stefan Gouws</b> La Trobe University Getting to the root cause of declining Coast Banksia ( <i>Banksia integrifolia</i> ) at Wilson's Promontory ✨	<b>Ms Sarah Luxton</b> Doctoral Student, Curtin University Testing the community types used for decision-making in the biodiverse forests of southwestern Australia ✨	<b>Miss Erica Marshall</b> , PhD Candidate, University of Melbourne Quantifying the effect of metric choice in offsetting: does accounting for habitat ensure species persistence? 🌐 ✨	<b>Mr Michael Hope</b> Project Manager Atlas of Living Australia (CSIRO) Traits: an aggregator's perspective	<b>Mr David Wilkinson</b> PhD Student The University of Melbourne Defining and evaluating the predictions of joint species distribution models
1505-1510		<b>Ms Louise Gilfedder</b> Associate, University of Tasmania Active conservation management to reduce woody plant dominance in montane temperate grasslands	<b>Mr Lucas Mckinnon</b> Principal Ecologist, Ecoplanning Pty Ltd Can the BioBanking Assessment Methodology be used to detect change over time?		
1510-1515		<b>Ms Angela Gardner</b> , Ecologist, Forest Practices Authority Using Species Distribution Models to Manage and Conserve Threatened Flora in Tasmania's Production Forests	<b>Ms Amy Constable</b> , PhD Candidate, Australian National University Missed opportunities: Biodiversity offset policy design and implementation in Australia 🌐 ✨		
1515-1520	<b>Dr Felipe E. Albornoz</b> , University of Western Australia Fine root endophytes and glomeromycotian arbuscular mycorrhizal fungi show differential responses to environmental drivers	<b>Miss Anthea Challis</b> PhD Student, Western Sydney University Adaptive plasticity in plant traits delays modelled and observed time to critical failure under drought ✨	<b>Dr Christine B. Schmitt</b> Senior Researcher Center for Development Research (ZEF), University of Bonn Reconciling nature conservation and human livelihood needs in Kenyan forest biodiversity hotspots	<b>Dr Grant Duffy</b> Monash University Integrating thermal traits, evolutionary potential, and remote-sensing to improve biological invasion predictions in the sub-Antarctic	<b>Ms Matilda Brown</b> University of Tasmania Hyperoverlap: detecting ecological overlap in n-dimensional space ✨
1520-1525	<b>Dr Adam Frew</b> Lecturer, University of Southern Queensland Increasing species richness of arbuscular mycorrhizal fungi benefits some plants, but not others	<b>Ms Anu Singh</b> The University of Melbourne Does Density of Eucalypts effects the diversity of understorey speices ✨		<b>Eleanor Velasquez</b> , Queensland University of Technology Pumice rafting: A hitchhiker's guide to marine functional trait diversity 🌐 ✨	

1525-1530	Discussion	<b>Ms Hannah Etchells</b> The University of Western Australia Does fire severity matter? Post-fire vegetation and fungal community regeneration in a fire-prone landscape ✨		<b>Mr Giles Ross</b> PhD Student, Western Sydney University Phylogeography of Antarctic Soil Invertebrates ✨	
15:30 -16:00	Afternoon Tea (Thursday)				
	<b>(8A) SYMPOSIUM: Solutions from above and below: Plant-soil research addressing climate change and biodiversity loss (part 3)</b>	<b>(8B) SYMPOSIUM: Research protocols and the changing nature of working on country</b>	<b>(8C) OPEN FORUM: Conservation translocation</b>	<b>(8D) SYMPOSIUM: Using ecological traits of invertebrates to understand ecosystems (part 3)</b>	<b>(8E) OPEN FORUM: Aquatic fresh</b>
ROOM	Chancellor 1	Chancellor 2	Chancellor 3-4	Chancellor 5	Chancellor 6
CHAIR	Adam Frew	John Locke	Kirstin Proft	Heloise Gibb & Nigel Andrew	Jenny Davis
1600-1615	<b>Dr Saras Windecker</b> Research Fellow University of Melbourne Soil carbon storage in freshwater wetlands of south eastern Australia	<b>Opening and Acknowledgement of Country Dr Noel Preece</b>  <b>Introduction John Locke</b> Yidinji & Kuku-Yalanji Traditional Owner, Wet Tropics	<b>Dr Judy Dunlop</b> Research Scientist, Dept Biodiversity, Conservation and Attractions WA industry offsets support one of Australia's largest translocation efforts ☺	<b>Ms Julia Smith</b> La Trobe University Psyllids, the purveyors of sugary treats: the role of free carbohydrate in Bell miner-associated dieback ☺ ✨	<b>Ms Emily McColl-Gausden</b> PhD Student, The University of Melbourne The Great Australian Platypus Search: Using Environmental DNA to survey platypuses in south eastern Australia ☺ ✨
1615-1630	<b>Mr Marc Freestone</b> PhD Studentm ANU / Royal Botanic Gardens Victoria Leek Orchids vs. Extinction: investigating causes of poor germination in a genus of threatened orchids ☺ ✨	<b>Short presentations</b> <i>The presentations are not formal structured talks, but perspectives on research experience on IPAs and other private conservation lands and public conservation lands</i>	<b>Ms Josephine Potter-Craven</b> PhD Student, University of Tasmania Ecology in practice: The successful translocation of a threatened Tasmanian butterfly ☺ ✨	<b>Mr Mingxin Liu</b> University of Tasmania Using DNA metabarcoding to assess beetle biodiversity in managed forests ✨	<b>Ms Lorraine Hardwick</b> PhD Student, Macquarie University Functional ecology: stories of Mulwaree Chain-of Ponds, a rare geomorphic relic and aquatic enigma ✨
1630-1645	<b>Mr Shubham Chhajed</b> Macquarie University Water budget for photosynthesis: differences among co-occurring species based on least-cost theory ☺ ✨	<b>Ms Mona Liddy</b> , Wagiman Traditional Owner <b>Mr Kurt Liddy</b> , Wagiman Traditional Owner <b>Professor Michael Douglas</b> , NESP Northern Hub Leader University of Western Australia <b>Gerry Turpin</b> , Mbabaram Traditional Owner, Wet Tropics, Director, ESA The Biodiscovery Act, the Nagoya protocol and intersections with research protocols <b>Amos Atkinson &amp; Nathan Wong</b> , Dja Dja Wurrung How we can walk together towards appropriate research on Djandak - Dja Dja Wurrungs agreements,	<b>Mr Luke Ireland</b> Department for Environment and Water What influences the success or failure of reintroductions? A case study on the mallee emu-wren	<b>Prof. Min Lu</b> Institute of Plant Protection Chinese Academy of Agricultural Sciences Bacterial volatile ammonia regulates consumption sequence in a fungus associated with an invasive bark beetle	<b>Dr Caroline Canham</b> Research Fellow University of Western Australia Predicting the occurrence of riparian tree species to inform environmental water planning ☺

		<p>expectations and opportunities for improved process</p> <p><b>Sarah Eccles</b>, Bush Heritage</p> <p><b>Skye Cameron</b>, AWC/UQ</p> <p>Anindilyakwa Groote Eylandt</p> <p><b>Vanessa Westcott</b>, Bush Heritage</p> <p><b>Malcolm Lindsay</b>, Environs Kimberley</p>			
1645-1700	<p><b>Ximena Cibils-Stewart</b>, PhD Student, Hawkesbury Institute for the Environment Western Sydney University</p> <p>Impacts of endophytic and mycorrhizal fungi on silicon uptake and anti-herbivore defenses: do threesomes work? 🌐 ✨</p>	<p><b>Panel Discussion</b> facilitated by <b>John Locke</b> and <b>Noel Preece</b></p>	<p><b>Dr Ella Kelly</b> Threatened Species Policy Officer, Department of Environment, Land, Water and Planning</p> <p>Outcome of a novel translocation of “toad-smart” northern quolls: unexpected setbacks, results, and reflections</p>	<p><b>(8F) Open Forum</b></p> <p><b>Dr Richard Davies</b> Flinders University of SA</p> <p>Use of ecological burns to recover endangered plants in endangered South Australian swamps</p>	<p><b>Dr Bec Harris</b> Lecturer Physical Geography (Climatology), University of Tasmania</p> <p>Attribution of biodiversity responses to extreme events under climate change. The case of floodplain communities</p>
1700-1705	<p><b>Dr Haiyang Zhang</b> Western Sydney University</p> <p>Warming influence the effect of mycorrhizal fungi on nutrient leaching</p>		<p><b>Dr Natasha Robinson</b> Research Fellow, The Australian National University</p> <p>Can personality predict survival in the wild of translocated captive-bred eastern quolls?</p>	<p><b>Jessica Rowland</b> PhD Student, Deakin University</p> <p>Testing the sensitivity of ecosystem indices to various threat scenarios 🌐 ✨</p>	<p><b>Ms Stephanie Robson</b> PhD Student, Monash University</p> <p>Environmentally realistic concentrations of pharmaceuticals alter diatom community composition ✨</p>
1705-1710			<p><b>Dr Alienor Chauvenet</b> Griffith University</p> <p>Cultivating informed management: deciding between ex situ and in situ conservation for threatened plants</p>		<p><b>Mr Jake Eckersley</b>, Student, University of Western Australia</p> <p>Hydrologic-response guilds of ephemeral stream vegetation in the Pilbara, northwest Australia 🌐 ✨</p>
1710-1715			<p>Discussion</p>		<p>DISCUSSION</p>
1715-1730	<p><b>Mrs Reham Mohammed</b> PhD Student, University of Tasmania</p> <p>Abundance of Arbuscular Mycorrhizal Fungi (AMF) in Different Soils Types in Tasmanian ✨</p>			<p><b>Ms Arabella Eyre</b> Field Officer, Zoos Victoria</p> <p>Time is running out - conservation translocations for the Critically Endangered Lowland Leadbeater’s possum</p>	<p><b>Mr Joshua Kestel</b> The University of Western Australia</p> <p>Bird pollination of the catspaw (<i>Anigozanthos humilis</i> subsp. <i>humilis</i>) prospurs independent of local flowering resources 🌐 ✨</p>
19:00 -20:30	<p><b>QUIZ NIGHT</b>, Royal Oak Hotel (14 Brisbane Street)</p>				
19:00–21:00	<p><b>MOVIE NIGHT – SIXTEEN LEGS</b></p> <p>Special Screening with Film Maker Q&amp;A, at <i>Tramsheds Launceston (4 Invermay Road)</i>. Ticket cost: \$12</p>				

PLENARY SESSION FIVE					
ROOM	Princess Theatre		CHAIR	Don Driscoll	
9:00 - 9:45	<b>Keynote presentation:</b> Bringing ecology into Australia's Environmental Law Reform, <b>Dr April Reside</b> , The University of Queensland				
9:45- 10:30	<b>Keynote presentation:</b> Extinction crisis, ecosystem collapse, post-truth politics and other fun reasons why the world needs ecologists, <b>Dr Brendan Wintle</b> , The University of Melbourne				
10:30 - 11:00	Morning Tea (Friday)				
	(9A) SYMPOSIUM: Adaptive management – walking the talk	(9B) OPEN FORUM: Forest ecology	(9C) SYMPOSIUM: Management of overabundant macropods	(9D) OPEN FORUM: Restoration	(9E) OPEN FORUM: Quantitative Ecology - Demography and dynamics
ROOM	Chancellor 1	Chancellor 2	Chancellor 3-4	Chancellor 5	Chancellor 6
CHAIR	Vanessa Westcott	Sue Baker	John Read	Perpetua Turner	David Keith
1100-1105	<b>Ms Clair Dougherty</b> National Conservation Planning Manager, Bush Heritage Australia Adaptive management - managing and reporting conservation impact	<b>Katie Irvine</b> The University of Adelaide Wild Orchid Watch: creating a citizen science program ☺ ✨	<b>Professor George Wilson</b> Australian National University Why have a kangaroo symposium at ESA19?  Options for improving kangaroo welfare, landscape sustainability and reducing wastage	<b>Ms Eve Lazarus</b> Project Officer, The Derwent Catchment Project Restoring Flood Resilience in Rivers of the Derwent Valley, Tasmania	<b>Miss Catherine Bowler</b> PhD Student, University of Queensland Using Bayesian frameworks to incorporate stochasticity into competition modelling and provide insights for applied ecology ☺ ✨
1105-1110		<b>Dr Fran Van Den Berg</b> Associate Lecturer, The University of Sydney Exposing first year students to an authentic ecological experience through partnerships with industry			
1110-1115		<b>Ms Kate Johnson</b> University of Tasmania Tree death in drought: The pattern and process of vascular failure in <i>Callitris rhomboidea</i> ✨			
1115-1130	<b>Dr Rachel Paltridge</b> Coordinator, Kwiirrkurra Indigenous Protected Area, Desert Support Services Adaptive Management of fire and feral predators to protect threatened species on the Kwiirrkurra IPA ☺	<b>Dr Leonie Valentine</b> Research Fellow, University of Western Australia Bandicoot bioturbation reduces fuel loads in an urban bushland	<b>Dr Helen Morgan</b> Conservation Programs Officer, Tasmanian Land Conservancy Macropod grazing, vegetation change and the potential for trophic cascades on the New England Tablelands	<b>Ms Erica Porter</b> Master of Philosophy Candidate Queensland University of Technology The Roots of Invasion: Above and belowground traits of native and non-native Australian grasses ✨	<b>Dr Leah Beesley</b> Research Associate, The University of Western Australia Predicting fish-related ecological functions and indigenous values across gradients of water availability: informing environmental-flow planning ☺

1130-1145	<b>Dr Darren Southwell</b> Postdoctoral Researcher, University of Melbourne Closing the adaptive management loop: evaluating a landscape-scale experiment for the threatened malleefowl ( <i>Leipoa ocellata</i> ) 🌐	<b>Miss Kristal Kostoglou</b> PhD Student, Deakin University Do egg predators intercept communication between avian embryos and their parents? 🌐 ✨	<b>Dr Melissa Snape</b> Senior Ecologist, Conservation Research ACT Government Using ground layer vegetation condition to inform kangaroo management for conservation	<b>Professor Peter Minchin</b> , Southern Illinois University, USA, presented by <b>John Davies, C/-</b> Tasmanian Herbarium Effects of climate change on the alpine and subalpine vegetation of Mt. Field National Park	<b>Dr Jian Yen</b> University of Melbourne Estimating freshwater fish recruitment and survival with limited data
1145-1200	<b>Dr Pippa Kern</b> , Freshwater and Wetlands Ecologist, Bush Heritage Australia How fences and family trees are helping to conserve a tiny, artesian spring fish	<b>Miss Kita Ashman</b> PhD Candidate, Deakin University The influence of plantations on habitat use and ranging behaviour of the koala 🌐 ✨	<b>Dr David Duncan</b> , Research Fellow, University of Melbourne Fifty years of kangaroo population monitoring and management in the Victorian Mallee Parks	<b>Prof Alan Andersen</b> Charles Darwin University Faunal standards for ecosystem restoration: rehabilitation of Ranger Uranium Mine	<b>Mr Paul Donatiu</b> , Team Leader, Healthy Land and Water Tripling the population of a critically endangered tree: The curious case of <i>Brachychiton</i> sp. Ormeau
1200-1205	<b>Ms Roweana Hamer</b> Conservation Ecologist Tasmanian Land Conservancy Biodiversity benchmarks – defining reference condition for reserve management 🌐	<b>Dr Sue Baker</b> Research Fellow, University of Tasmania Assessing habitat quality in forests managed for wood production	<b>Ms Linda Riquelme</b> , The University of Melbourne Estimating biomass using remote sensing for endangered Buloke ( <i>Allocasuarina luehmannii</i> ) Woodland conservation in south-eastern Australia ✨	<b>Dr Rebecca Jordan</b> CSIRO Combining phenotype, genotype and climate to identify adaptation in <i>Eucalyptus microcarpa</i>	<b>Dr Peter Vesk</b> University of Melbourne Predicting eucalypt distributions from traits; can we do it?
1205-1210			<b>Dr Anne Kerle</b> Consultant, Kerle Environmental The dying has begun. It's a pretty rough backdrop to a job		
1210-1215			<b>Dr Terry Coates</b> , Research Scientist (Ecology), Royal Botanic Gardens Victoria The rise and fall of the black wallaby population at the Royal Botanic Gardens Cranbourne		
1215-1230	<b>Dr Maggie Watson</b> Lecturer, Charles Sturt University Thinking Outside the Nest Box—Conditioning Sugar Gliders to Leave Eggs Off the Menu	<b>Mr Shes Kanta Bhandari</b> PhD Student, University of Western Australia Effect of thinning and fertilizer on allometry and growth of <i>Eucalyptus marginata</i> 🌐 ✨	<b>Catherine Herbert</b> The University of Sydney Human-kangaroo Interactions in Suburban Ecosystems: An emerging wildlife management challenge	<b>Dr Rachel Standish</b> , Associate Professor, Murdoch University Experimental test of carbon biodiversity trade-off in yate woodland restoration 🌐	<b>Dr Natalie Briscoe</b> , Research Fellow, University of Melbourne How well do process-explicit models predict species range dynamics under climate change?
1230-1235	<b>Doctor Justin Perry</b> Research Scientist, CSIRO Data driven adaptive management reduces depredation of Olive Ridley turtles by 90% Western Cape York	<b>Ms Marina Schmoeller</b> PhD Student, Federal University of Rio De Janeiro Forest-dependent species loss is induced by habitat loss and edge effect 🌐 ✨	<b>Dr Graeme Coulson</b> The University of Melbourne Density-dependent indicators of population growth trajectories in peri-urban eastern grey kangaroos ( <i>Macropus giganteus</i> )	<b>Dr Marlien Van Der Merwe</b> Research Scientist. National Herbarium of NSW Capturing diversity with seed collections for ecological restoration	<b>Dr Nick Golding</b> University of Melbourne Fitting demographic models to species distribution data
1235-1240					<b>Dr Sam Nicol</b> CSIRO Quantifying the impact of uncertainty on threat management for biodiversity
1240-1245					<b>Dr Shane Richards</b> Senior Lecturer, University of Tasmania Using host-disease models to

					improvement management success of environmentally transmitted pathogens in the field
1245-1250	<b>Ms Belinda Wilson</b> PhD Student, The Australian National University A 'quollity' reintroduction: Using tactics, trials and adaptive management to establish an endangered carnivore ✨	<b>Ms Laura van Galen</b> University of Otago Assessing coarse woody debris habitat quality and its links to forest maturity 🌍 ✨	<b>Ms Claire Wimpenny</b> Ecologist, Environment, Planning and Sustainable Development Directorate, ACT Government Assessing efficacy of a dart delivered immunocontraceptive for managing peri-urban kangaroo populations	<b>Ms Dana Cusano</b> PhD Student, The University of Queensland The communication and behaviour of humpback whales in competitive groups on their breeding ground 🌍 ✨	<b>Mr Tianxiao Hao</b> PhD Student, The University of Melbourne Mapping the territory of a hidden Kingdom – use of species distribution models for fungi 🌍 ✨
1250-1255	<b>Dr Greg Kerr</b> , Senior Ecologist, Nature Glenelg Trust Walker Swamp - A case study for achieving landscape scale wetland restoration and resilience				<b>Rachael Nalliah</b> PhD Student, The University of Melbourne A love triangle between fire, resources and the endangered native Heath Mouse 🌍 ✨
1255-1300	<b>Ms Thea O'Loughlin</b> Field Ecologist, ACT Parks and Conservation Service Partnering monitoring and management for the conservation of a threatened reptile in urban grasslands 🌍				<b>Ms Carley Fuller</b> University of Tasmania Protected-area planning in the Brazilian Amazon should prioritize additionality and permanence, not leakage mitigation ✨
13:00-14:00	Lunch (Friday)				
1315-1400	<b>Kangaroo Management in Australia: the need for reform</b> , Chancellor 3-4				

## PLENARY SESSION SIX

ROOM	Chancellor 1-2	CHAIR	Don Driscoll / Jodi Price
14:00- 14:45	<b>Keynote presentation: ESA Gold Medal winner</b> <i>Woman on fire: Insights from an elemental career</i> , <b>Jann Williams</b>		
14:40- 15:30	Prizes and Awards		
15:30 -16:00	2-DAY FIELD TRIP to Ben Lomond (Post-conference)		

## SATURDAY, NOVEMBER 30 AND SUNDAY, DECEMBER 1, 2019

10:00 - 16:00	<b>Two-Day Post-CONFERENCE WORKSHOP</b> Visualising Research: Telling Stories of Discovery	Hotel Grand Chancellor, Chancellor 6
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