

## ESA2021 Conference Program

Monday, November 22, 2021

PLENARY SESSION ONE					
9:30 AM - 11:00 AM	<p>Session Chair: Alan Andersen</p> <p>Welcome to Country and Conference Opening</p> <p>KEYNOTE PRESENTATION: The new Global Biodiversity Framework v. Australia: how our conservation policy needs to change, and what ecologists can do about it</p> <p><b>Dr Martine Maron</b>, <i>Professor of Environmental Management, The University of Queensland</i></p> <p>KEYNOTE PRESENTATION: The 2019/20 mega-fires: what did we learn and will it equip us for the future?</p> <p><b>Emeritus Professor Ross Bradstock</b>, <i>University of Wollongong</i> and <b>Dr Rachael Nolan</b>, <i>Research Fellow, Western Sydney University</i></p>				
11:00 AM - 11:15 AM	<p>Morning tea (Monday)</p> <p>Please <a href="#">click here</a> to visit our online networking hub.</p>				
	<p><b>BUSINESS AND BIODIVERSITY: INSIGHTS FOR ECOLOGY AND CONSERVATION SCIENCE FROM RESEARCH AND</b></p>	<p><b>PLANNING OUR FUTURE CITIES: CREATING BIODIVERSE AND FUNCTIONING URBAN ECOSYSTEMS</b></p>	<p><b>MANAGING, MONITORING AND MODELLING MAMMALIAN PREDATORS (1)</b></p>	<p><b>OPEN FORUM: ECOLOGICAL IMPACT OF THE 2019/2020 MEGAFIRES</b></p>	<p><b>PRACTITIONERS COLLABORATING TO RESTORE AND REWILD LANDSCAPES</b></p>
11:15 AM	<p><b>Carl Obst</b>, <i>Director Idea Group - Integrating biodiversity in business decision-making through natural capital accounting</i></p>	<p><b>Loren Fardell</b>, <i>Phd Candidate, The University of Sydney - Considering landscapes of fear in urban biodiversity conservation</i></p>	<p><b>Dr Rosemary Hohnen</b>, <i>Adjunct Research Fellow, Charles Darwin University - Changes in the abundance and activity of feral cats following high severity fire</i></p>	<p><b>Bridget Roberts</b>, <i>PhD Candidate, University of Wollongong - Reptiles and fire; pretty hot and tempting</i></p>	<p>PRACTITIONER ENGAGEMENT AWARD PRESENTATION - <b>Alexandra Nance</b>, <i>PhD Candidate, Monash University</i> and <b>Melinda Wilson</b>, <i>Department of Agriculture, Water and the Environment</i></p>
11:28 AM	<p><b>Dr Megan Evans</b>, <i>Lecturer and ARC DECRA Fellow, UNSW Canberra - Closing the biodiversity finance gap with private investment: how is it working on the ground?</i></p>	<p><b>Jacinta Humphrey</b>, <i>PhD Student, Research Centre For Future Landscapes, La Trobe University - Avoid, adapt or exploit: Modelling avian species responses to housing and canopy tree cover</i></p>	<p><b>Rebecca Groenewegen</b>, <i>Phd Candidate, The University of Melbourne - Predator density estimation with information-poor data: spatial count models in a management program</i></p>	<p><b>Sarah Stock</b>, <i>Phd Candidate, University of Newcastle - Heath frogs and the associated aquatic community response to devastating fires</i></p>	
11:41 AM	<p><b>Dr Jim Radford</b>, <i>Principal Research Fellow, La Trobe University - Farm-scale Natural Capital Accounting – accounting for biodiversity and profitability in agribusiness</i></p>	<p><b>Zahra Saraeian</b>, <i>University of Melbourne - Evaluating the performance of Australian annual seed mix on green roof under different irrigation frequencies</i></p>	<p><b>Anna C Lewis</b>, <i>Phd Candidate, University of New South Wales - Effects of population density and body mass on diet specialisation in a mammalian scavenger</i></p>	<p><b>Brad Law</b>, <i>Principal Research Scientist, NSW Primary Industries - Fire severity and its local extent is key to assessing impacts of mega-fires on koalas</i></p>	<p><b>Dr Ronda Green</b>, <i>Adjunct Research Fellow, Environmental Futures Research Institute, Griffith University - Habitat fragmentation and corridors: a brief review and a new citizen science project</i></p>
11:46 AM					<p><b>Evan Parker</b>, <i>Phd Student, The University of Adelaide - Pleistocene fossil sites and their role in conservation public outreach: A World Heritage Area perspective</i></p>
11:51 AM					<p><b>Rangi Clubb</b> - Restoring cultural business within</p>

11:54 AM	<b>Dr Holly Kirk</b> , <i>Postdoctoral Research Fellow, RMIT University</i> - Translating ecological knowledge for urban developers through Biodiversity Sensitive Urban Design (BSUD) <sup>1</sup>	<b>Jaiden Johnson-Bates</b> , <i>Honours Student, Griffith University</i> - Drivers of propagule bank and vegetation community composition in urban forest fragments of south east Queensland	<b>Chris Pocknee</b> , <i>PhD Candidate, The University of Queensland</i> - Have feral cats driven the decline of the northern bettong?	<b>Dr Thomas Newsome</b> , <i>University of Sydney</i> - Effects of the 2019/2020 megafires on vertebrate scavenger dynamics and carcass persistence rates	cultural burning within the mainstream rural fire management system by overcoming western cultural issues
11:59 AM			<b>Gavin Trewalla</b> , <i>PhD Candidate, Charles Darwin University</i> - Daily activity of the northern quoll, feral cat and dingo in a tropical savanna		
12:04 PM			<b>Matthew Rees</b> , <i>PhD Candidate, University of Melbourne</i> - Efficient use of predator detections		
12:07 PM	<b>Dr Karel Mokany</b> , <i>Senior Research Scientist, CSIRO</i> - Providing business with reliable biodiversity tools	<b>Alison Haynes</b> , <i>PhD Candidate, University of Wollongong</i> - Where's the moss? Mapping urban moss to understand the challenges of city life for plants	<b>Tim Hendersen</b> , <i>Student, University of New England</i> - Spatial and temporal interactions between spotted-tailed quolls and red foxes in a fragmented landscape	<b>Michelle Ward</b> , <i>Conservation Ecologist, UQ/WWF</i> - Restoring species' habitats in anthropogenic landscapes after megafires	<b>Dr Pauline Marsh</b> , <i>Lecturer, Centre For Rural Health</i> Can ecological restoration restore health and wellbeing in rural communities?
12:09 PM					
12:11 PM					
12:12 PM					
12:17 PM					
12:20 PM	<b>Natasha Cadenhead</b> , <i>PhD Researcher, The University of Queensland</i> - Greening finance: Leveraging the finance sector to improve biodiversity outcomes	<b>Katherine Berthon</b> , <i>PhD Candidate, RMIT</i> - Using pollen meta-barcoding to understand pollinator preferences in urban greenspaces	<b>Tom Bruce</b> , <i>PhD Candidate, James Cook University</i> - Drivers of feral cat occupancy and dingo-feral cat interactions in north Queensland tropical rainforests.	<b>Dr Liz Tasker</b> , <i>Principal Scientist Fire Ecology NSW Dept of Planning, Industry and Environment</i> - Assessing impacts and threats on 100 priority NSW plants after the 2019-2020 bushfires	<b>Dr Jessica Rowland</b> , <i>Post-doctoral Research Fellow, Monash University</i> - Setting research priorities for effective threatened ecosystem management: a horizon scan for Australian alpine peatlands
12:22 PM					
12:30 PM					
12:33 PM	<b>Dr Rachel Morgain</b> , <i>Senior Research Fellow The University of Melbourne</i> - Which way the wind is blowing: key issues driving business engagement with biodiversity	<b>Manuel Lequerica</b> , <i>Doctoral Candidate University of Sydney</i> Tamara - Habitat exploration and foraging in hoverflies is sexdependent	<b>Professor Sungwon Hong</b> , <i>Kyungpook National University</i> - Application of hierarchical Bayesian approach to single observation multi-time survey data of otter distributions	<b>Dr Orsi Decker</b> , <i>Research Officer, La Trobe University</i> - Snail-tales from the Black Summer fires	<b>Mark Le Pla</b> , <i>PhD Student, University of Melbourne</i> - How does fire influence the movement ecology of Long-nosed Potoroos in Otway Ranges heathlands?
12:35 PM					
12:38 PM					
12:43 PM					
12:46 PM	<b>Dr Matthew Selinske</b> , <i>Postdoctoral Researcher RMIT University</i> - Leading in business and biodiversity	<b>Mahmuda Shamin</b> , <i>PhD Candidate, Hawkesbury Institute for the Environment</i> - Habitat complexity affects invertebrate biodiversity in urban greenspaces	<b>Leonie Huijser</b> , <i>PhD Student, The University of Queensland</i> - Social assortativity in Indo-Pacific bottlenose dolphins in Moreton Bay, eastern Australia	<b>Tom le Breton</b> , <i>PhD Candidate, UNSW</i> - Megafire-induced interval squeeze threatens vegetation at landscape scales	<b>Dr Ingrid Stirnemann</b> , <i>Conservation Planning EPSDD</i> - Models for managers
12:48 PM					
12:53 PM	<b>Paul Dettmann</b> , <i>Founder, Cassina</i> - Cassinia : a case study in the emergence of businesses for biodiversity	<b>Daniel Jin</b> , <i>PhD Student The University of Sydney</i> - Increased temperature range reduces herbivory by an urban leaf beetle	<b>Dr Hugh Davies</b> , <i>Research Associate Charles Darwin University</i> - Feral cats on the Tiwi Islands: a threat to country and culture	<b>Professor Don Driscoll</b> , <i>Director, Centre For Integrative Ecology, Deakin University</i> , Mammals are weaker than reptiles. Megafire impacts on threatened skinks and broad-toothed rat	<b>Dr Lisa Farnsworth</b> , <i>Restoration and Research Manager, Winton Wetlands Committee of Management Inc</i> - Grass roots to Growlers: Citizen scientists, land managers and researchers collaborating to rewild Litoria raniformis
12:59 PM					
1:01 PM					
1:06 PM		<b>Dr Emily Flies</b> , <i>Lecturer University of Tasmania</i> - How has urbanisation impacted microbial biodiversity, human health and urban ecosystem services?	<b>Dr Kelly de Bie</b> , <i>Research Fellow, University of Melbourne</i> - Protecting threatened species and ecological communities before and during bushfire: Learning from the 2019/20 fires	<b>Dr Jason Cummings</b> , <i>Chief Executive Officer Woodlands &amp; Wetlands Trust</i> - Science, Collaboration and Curation - the Mulligans Flat Woodland Sanctuary Journey	

1:11 PM		<b>Hanh Nguyen, <i>Phd Candidate, niversity of Tasmania</i></b> - Wildlife and microbiomes in the city: Urbanites, big and small			
1:15 PM	<b>BUSINESS AND BIODIVERSITY: INSIGHTS FOR ECOLOGY AND CONSERVATION SCIENCE FROM RESEARCH AND PRACTICE - Live QA</b>	<b>PLANNING OUR FUTURE CITIES: CREATING BIODIVERSE AND FUNCTIONING URBAN ECOSYSTEMS - Live QA</b>	<b>MANAGING, MONITORING AND MODELLING MAMMALIAN PREDATORS - Live QA</b>	<b>OPEN FORUM: ECOLOGICAL IMPACT OF THE 2019/2020 MEGAFIRES - Live QA</b>	<b>Cristina Hernandez, <i>Phd Student, RMIT University</i></b> - Investigating the extent of biodiversity considerations in urban development design processes: A descriptive review
1:30 PM					<b>PRACTITIONERS COLLABORATING TO RESTORE AND REWILD LANDSCAPES - Live QA</b>
1:30 PM	Lunch (Monday) - spend some time in SpatialChat				
	Please <a href="#">click here</a> to visit our online networking hub.				
	<b>RESEARCH CHAPTERS UPDATE AND NETWORKING</b>				
	<b>CONCURRENT SESSIONS 2</b>				
	<b>OPEN FORUM: EVOLUTIONARY ECOLOGY</b>	<b>PLANNING OUR FUTURE CITIES: HUMAN-NATURE CONNECTIONS, COEXISTENCE AND CO-DESIGN</b>	<b>MANAGING, MONITORING AND MODELLING MAMMALIAN PREDATORS (2)</b>	<b>OPEN FORUM: THREATENED SPECIES (1)</b>	<b>OPEN FORUM: CONSERVATION ECOLOGY (1)</b>
2:15 PM	<b>Meng-Jia Lau, <i>University of Melbourne</i></b> - Genetic stability of <i>Aedes aegypti</i> populations following invasion by wMel Wolbachia	<b>Dr Ollie Cotsaftis, <i>Industry Fellow, RMIT University School of Design</i></b> - On the use of biodesign and living architecture in designing equitable and regenerative cities	<b>Dr Judy Dunlop, <i>WA Feral Cat Working Group</i></b> - Western Australian Feral Cat Working Group - a coordinated approach to research and management	<b>Professor Stephen Garnett, <i>Professor of Conservation and Sustainable Livelihoods, Charles Darwin University</i></b> - Trends in the status of and threats to Australian threatened birds	<b>Associate Professor Samantha Capon, <i>Head of Discipline, (Environment &amp; Marine) Griffith University</i></b> - Should we conserve ecological ruins?
2:28 PM	<b>Ettore Camerlenghi, <i>Monash University</i></b> - Can relationships within a social network predict altruistic behaviours in the wild?	<b>Dr Viveka Hocking, <i>The Australian National University</i></b> - Cross-species Co-Conspirators in Urban Living: designing the built environment for human-animal interaction and wellbeing	<b>Dr Jaime Heiniger, <i>Project Officer, NSW National Parks and Wildlife Service</i></b> - Developing strategies for effective feral cat management in northern New South Wales	<b>Dr April Reside, <i>Lecturer University of Queensland</i></b> - What's required to recover all of Australia's threatened species, and how much will this cost?	<b>Lachlan Howell, <i>PhD Student, The University of Newcastle</i></b> - Integrating biobanking could produce significant cost-benefits and minimise inbreeding for Australian amphibian captive breeding programs
2:41 PM	<b>Professor Andy T.D. Bennett, <i>Chair In Life And Environmental Sciences, Deakin University</i></b> - Colour signalling in wild <i>Platyercus elegans</i> reveals why parrots are gaudy and popular	<b>Amelie Vanderstock, <i>Phd Candidate The University of Sydney</i></b> - Biophilia in the city: Growing positive attitudes towards invertebrates through urban gardening	<b>Annalie Dorph, <i>Research Fellow University of New England</i></b> - Assessing feral cat movement to determine and improve their rate of detection on remote cameras	<b>Richard McLellan, <i>Phd Candidate, Charles Sturt University</i></b> - The ecological and cultural implications of extinction —sandalwood as a case study	<b>Brigette Wright, <i>Postgraduate, IMAS (University of Tasmania)</i></b> - Quid pro quo: reciprocal learning opportunities between climate-driven species redistribution and species invasion
2:54 PM	<b>Dr Jessica Fenker, <i>Atlas of Living Australia / Ecomcommons</i></b> - A life in tropical savannas – patterns of ecomorphological diversification on independent squamate radiations	<b>Dr Natasha Pauli, <i>Senior Lecturer, University of Western Australia</i></b> - Verging on transformation: The social and ecological values of native verge gardens along suburban streets	<b>Alexandra Paton, <i>PhD Candidate, University of Tasmania</i></b> - Flash and dash? Impact of camera trap flash type on feral cat behaviour and re-visitation	<b>Javiera Olivares-Rojas, <i>Phd Candidate Monash University</i></b> - Efficiencies of species-based and ecosystem-based approaches for threatened biodiversity conservation	<b>Dr Kaya Klop-Toker, <i>Post-doctoral Researcher University of Newcastle</i></b> - Impacts of coal-mine induced iron-staining on tadpole development.

2:59 PM			<b>Vishnu Ramachandran Menon, <i>Phd Student University of Melbourne</i></b> - Are native mammals more resilient to fire in fox-baited landscapes?		<b>Dr Heidi Zimmer, <i>Research Scientist, Centre for Australian National Biodiversity Research</i></b> - Molecular systematics and taxonomy for orchid conservation in Australia
3:04 PM			<b>Dr Stephanie Pulsford, <i>Ecologist, ACT Government</i></b> - Managing foxes in urban reserves, using Canid Pest Ejectors in a new context		<b>Dr Micha Jackson, <i>Researcher, University of Adelaide</i></b> - Measuring shorebird habitat quality in a highly altered wetland
3:07 PM	<b>Gabriella Sparkes, <i>PhD Student, University of Queensland</i></b> - Performance trade-offs and trait repeatabilities in male and female northern quolls ( <i>Dasyurus hallucatus</i> )	<b>Professor Maria Ignatieva, <i>The University of Western Australia</i></b> - Lawns as ecological and cultural phenomena. Searching for sustainable solutions in time of drying climate		<b>Chantelle Doyle, <i>Ecologist/student UNSW/AMBS</i></b> - Can nursery growing medium influence translocated plant growth and flowering?	
3:09 PM			<b>Linda van Bommel, <i>Postdoctoral Researcher, University of Tasmania</i></b> - Can livestock guardian dogs protect threatened species? The effect of maremna sheepdogs on fox behaviour		<b>Yasara De Mel, <i>Phd Student, Queensland University of Technology</i></b> Molecular phylogeography and taxonomic reassessment of lyrebirds
3:20 PM	<b>Arisa Hosokawa, <i>Phd Candidate, University of Sydney</i></b> - The effect of age on the physiology and behaviour of the slime mould, <i>Physarum polycephalum</i>	<b>Thami Croeser, <i>RMIT University</i></b> - De-paving paradise: replacing parking with green space		<b>Samantha Yabsley, <i>Student, Hawkesbury Institute for the Environment</i></b> - Human-modified landscapes provide key foraging areas for a threatened flying mammal: the greyheaded flying-fox	
3:22 PM			<b>Dr Alyson Stobo-Wilson, <i>Postdoctoral Fellow, CSIRO</i></b> - Small mammal decline in monsoonal northern Australia		<b>Sara Balouch, <i>PhD Student, Deakin University</i></b> - Differing responses of arboreal and terrestrial reptiles to habitat degradation in agricultural landscapes
3:33 PM				<b>Amanda Lilleyman, <i>Charles Darwin University</i></b> - Determining habitat preferences of Far Eastern Curlew	
3:35 PM					<b>Pawel Waryszak, <i>Research Officer, Deakin University</i></b> - Coastal wetlands renewal: insights from two mangrove restoration case studies towards tailored restoration response
3:40 PM	OPEN FORUM: EVOLUTIONARY ECOLOGY - Live QA	PLANNING OUR FUTURE CITIES: HUMAN-NATURE CONNECTIONS, CO-EXISTENCE AND CO-DESIGN - Live QA	MANAGING, MONITORING AND MODELLING MAMMALIAN PREDATORS - Live QA	OPEN FORUM: THREATENED SPECIES - Live QA	OPEN FORUM: CONSERVATION ECOLOGY - Live QA
3:55 PM - 4:10 PM	quick break (Monday)				
	<a href="#">Please click here</a> to visit our online networking hub.				
	<b>CONCURRENT SESSIONS 3</b>				
	<b>OPEN FORUM: BEHAVIOUR, PHYSIOLOGY AND MOVEMENT</b>	<b>PLANNING OUR FUTURE CITIES: POLICY AND PRACTICE</b>	<b>OPEN FORUM: MAMMAL ECOLOGY</b>	<b>OPEN FORUM: CONSERVATION POLICY AND MANAGEMENT</b>	<b>OPEN FORUM: FRESHWATER ECOLOGY</b>
4:10 PM	<b>Cameron Baker, <i>PhD Candidate, The University of Queensland</i></b> - Telemetry reveals predictable differences in crocodile personality	<b>Dr Adam Liedloff, <i>CSIRO</i></b> - Engaging with the stories of Darwin to better understand our natural systems	<b>Dr Roan Plotz, <i>Lecturer and Course Chair In Environmental Science Victoria University</i></b> - Black rhino, an asocial megaherbivore vulnerable to poachers, uses oxpecker alarm calls to evade humans	<b>Professor Emily Nicholson, <i>Professor of Conservation Science, Deakin University</i></b> - Scientific foundations for an ecosystem goal and indicators for the post-2020 global biodiversity framework	<b>Brock Hedges, <i>Phd Candidate, The University of Adelaide</i></b> - Temporary freshwater rock-holes: an accessible resource to vertebrates of conservation interest in arid Australia

4:23 PM	<b>Amelie Corriveau</b> , <i>Charles Darwin University</i> - Managing magpie geese in northern territory mango crops	<b>Dr Brenda Lin</b> , <i>CSIRO</i> - Green space use in Darwin	<b>Dr Brenton von Takach</b> , <i>Forrest Prospect Fellow Curtin University</i> - Mammal declines and the conservation of adaptive capacity in northern Australia	<b>Dr David Tierney</b> , <i>Honorary Senior Research Fellow, University of Sydney</i> - Linking ecosystem restoration to the IUCN Red List: how to track the Earth's ecosystems	<b>Dr Galen Holt</b> , <i>Deakin University</i> - Diversity consequences of oviposition: applying coexistence theory to aquatic insect communities
4:36 PM	<b>Sara Ryding</b> , <i>PhD Candidate, Deakin University</i> - Some like it hot: reviewing morphological responses to climatic warming	<b>Dr Manuel Esperon-Rodriguez</b> , <i>Research Fellow, Western Sydney University</i> - Climate-change risk analysis for Australian urban vegetation	<b>Dr Benjamin Wagner</b> , <i>Research Fellow, The University of Melbourne</i> - Spatial patterns in feeding habitat influence the abundance and home range size of greater gliders	<b>Dr Noel Preece</b> , <i>Director Biome5 Pty Ltd</i> - A pathology of policies pushing species towards extinction - turning around stubborn resistance to action	<b>Dr Georgia Dwyer</b> , <i>Postdoctoral Research Fellow, Deakin University</i> - Positive and negative density dependent infection found in an emerging disease of stream insects
4:49 PM	<b>Dr Mylene Mariette</b> , <i>Research Fellow, Deakin University</i> - A prenatal acoustic signal of heat affects thermoregulation capacities at adulthood in an arid-adapted bird	<b>Dr Sarah Bekessy</b> , <i>Professor, School of Global, Urban and Social Studies, RMIT University</i> - Onsets not offsets for real biodiversity benefits	<b>Amy Smith</b> , <i>Melbourne University</i> - Mammal community composition in a fire-prone landscape	<b>Clare Vernon</b> , <i>Deakin University</i> - Systematic review of indicators used in terrestrial Red List of Ecosystem Assessments	<b>Callum Mulvey</b> , <i>Science Communication Officer, Threatened Species Recovery Hub</i> - Impacts of bushfire-associated stressors on threatened freshwater fishes
5:02 PM	<b>Isabella Contador-Kelsall</b> , <i>PhD Candidate, University of Wollongong</i> - Impacts of locust control pesticides on the physiology and behaviour of the Central Bearded Dragon	<b>Julia Schiller</b> , <i>PhD Candidate, University of Melbourne</i> - Mapping green roof uptake in Melbourne	<b>Kaylah del Simone</b> , <i>PhD Student, University of Queensland</i> - Trade-offs between speed and agility in an Australian critical weight range marsupial	<b>Elisabetta Canteri</b> , <i>PhD Student, The University of Adelaide</i> - IUCN Red List protects avian genetic diversity	<b>Dr William Bovill</b> , <i>Research Fellow, Environmental Flows, The University of Melbourne</i> - A field experiment to test for density-related dispersal of hatchling insects from natal sites
5:07 PM			<b>Dr Tyrone Lavery</b> , <i>Postdoctoral Researcher The Australian National University</i> - Counting wiliji on country: Indigenous led monitoring, camera traps and unmarked models	<b>Dr Rocio Ponce-Reyes</b> , <i>Research Scientist, CSIRO</i> - Towards an inclusive and sustainable Australian edible industry	
5:12 PM			<b>Brianna Coulter</b> , <i>PhD Student, UNSW</i> - A reinforcement of the greater bilby ( <i>Macrotis lagotis</i> ) affects the movement behaviour of resident females	<b>Veronica Toral-Granda</b> , <i>Charles Darwin University</i> - Humans as vectors of introduced species: the Galapagos Islands	
5:15 PM	<b>Alex Jiang</b> , <i>PhD Student, University of Queensland</i> - Movement of free-ranging koalas in response to male vocalisation playbacks	<b>Rob Dabal</b> , <i>Ecologist, Ecofutures</i> - Protect the Best: Maintaining ecological processes in Melbourne Water's Sites of Biodiversity Significance	<b>Simeon Zylinski</b> , <i>PhD Student, The University of Melbourne</i> - Mammal responses to habitat structure in a fragmented and fire-prone landscape	<b>Dr Brett Howland</b> , <i>Fenner School of Environment and Society, ANU</i> - Calibrating the 'restoration wheel' with data to inform post fire restoration efforts in SE Australia	<b>Damian Lettoof</b> , <i>PhD Candidate, Curtin University</i> - Pollution not people nor parasites predict poor body condition in a wetland bioindicator snake
5:25 PM					
5:28 PM	<b>Isaac Rossetto</b> , <i>PhD Student, University of Adelaide</i> - Evolution of Visual Systems During Terrestrial-to-Aquatic Transitions in Snakes				
5:33 PM	<b>Jackie O'Sullivan</b> , <i>PhD Candidate, The Australian National University</i> - Multiscale influences of overwintering retreat site selection by reptiles in south-eastern Australia		<b>Aurelie Kanishka</b> , <i>PhD Candidate, Australian National University</i> - How fox baiting has changed the co-occurrence of Common Brushtail Possums and Bush Rats	<b>Adam Toomes</b> , <i>PhD Candidate, The University of Adelaide</i> - Endemic Australian reptiles threatened by international trade: the case of the shingleback lizard ( <i>Tiliqua rugosa</i> )	
5:38 PM					
5:40 PM	<b>OPEN FORUM: BEHAVIOUR, PHYSIOLOGY AND MOVEMENT - Live QA</b>	<b>PLANNING OUR FUTURE CITIES: POLICY AND PRACTICE - Live QA</b>	<b>OPEN FORUM: MAMMAL ECOLOGY - Live QA</b>	<b>OPEN FORUM: CONSERVATION POLICY AND MANAGEMENT - Live QA</b>	<b>OPEN FORUM: FRESHWATER ECOLOGY - Live QA</b>
5:45 PM					
5:55 PM					
6:00 PM - 7:00 PM	<b>ESA2021 BARBRA RICE MEMORIAL POSTER SESSION</b> <i>Visit the online poster gallery - poster presenters are standing by to talk with you about your poster. Click on the poster you are interested in and 'join the queue' to chat online with the poster presenter</i>				

Please [click here](#) to visit our online networking hub.

**PLENARY SESSION TWO**

9:30 AM - 11:00 AM KEYNOTE PRESENTATION: Negative emotions and mental health impacts attributable to climate change  
**Associate Professor Navjot Bhullar**, *School of Psychology, University of New England*

INDIGENOUS KEYNOTE PRESENTATION: **Professor Stephen Van Leeuwen**, *Curtin University*

11:00 AM - 11:15 AM Morning tea (Tuesday)

Please [click here](#) to visit our online networking hub.

**CONCURRENT SESSIONS 4**

	<b>TAILORED RESTORATION RESPONSE: PREDICTIONS AND GUIDELINES FOR COASTAL WETLAND RENEWAL USING ECOLOGICAL THEORY AND DATA</b>	<b>INDIGENOUS ECOLOGICAL KNOWLEDGE SYMPOSIUM</b>	<b>HUMAN BEHAVIOUR CHANGE AND THE IMPORTANCE OF NATURE CONNECTION FOR HUMANITY'S WELLBEING</b>	<b>OPEN FORUM: THREATENED SPECIES (2)</b>	<b>OPEN FORUM: FIRE ECOLOGY (1)</b>
11:15 AM	<b>Dr Emma Asbridge</b> , <i>Marine Estate Manager, DPI Fisheries</i> - Marine Vegetation Management Strategies: A framework for estuary wide prioritisation of protection and rehabilitation	<b>Anna Boustead</b> , <i>Indigenous Carbon Industry Network</i> - How does savanna fire management support weaving of TEK with western science?	<b>Dr Lily van Eeden</b> , <i>Postdoctoral Researcher Arthur Rylah Institute</i> - Impacts of COVID lockdowns on access to nature, connection to nature, and wellbeing among Victorians	<b>Robin Leppitt</b> , <i>PhD Candidate, Charles Darwin University</i> - Mitochondrial phylogeny and genetic variation within the Yellow Chat ( <i>Epthianura crocea</i> ) and implications for conservation	<b>Madison Staff</b> , <i>Honours student, Monash University</i> - The impacts of fire on the structure and diversity of ants, Little Desert National Park, VIC
11:28 AM	<b>Catherine Lovelock</b> , <i>The University of Queensland</i> - Blue carbon to support restoration of tidal wetlands	<b>Susie Cramp</b> , <i>PhD Student, UWA Albany</i> - Learning from 'lizard traps': Walking together to care for granite country	<b>Dr Samantha Grover</b> , <i>Lecturer, Environmental Science, RMIT University</i> - Nature connection and climate change education in higher education; An atmospheric sciences case study	<b>Emily Hoffmann</b> , <i>PhD Student, The University of Western Australia</i> - Drying microclimates threaten persistence of critically endangered white bellied frog	<b>Dr Leroy Gonsalves</b> , <i>Research Scientist, NSW Department of Primary Industries</i> - Roost selection by <i>Nyctophilus corbeni</i> in a patchy post-management burn mosaic in the Pilliga NSW
11:28 AM			<b>Fern Hames</b> , <i>Director Arthur Rylah Institute for Environmental Research</i> - When disaster strikes: recognising and supporting the recovery loop for people and nature		
11:33 AM			<b>Hannah Etchells</b> , <i>Hotspots Ecologist, Nature Conservation Council NSW</i> "I never cared about the trees before": Empowering landholders to undertake ecological fire management post-2019/20		
11:41 AM	<b>William Glamore</b> , <i>University of New South Wales</i> - Combining hydrodynamic modeling and eco-hydrology for developing and assessing blue carbon ecosystem restoration options	<b>Dr Emma Ligtermoet</b> , <i>Postdoctoral Research Associate, ANU/UWA</i> - Return of the ginga ( <i>Crocodylus porosus</i> ): Population 'bust then boom' shapes Indigenous freshwater biocultural knowledge	<b>Dr Georgia Garrard</b> , <i>Senior Lecturer, The University of Melbourne</i> - The psychological distance of biodiversity conservation	<b>Dr Johan Gustafson</b> , <i>Researcher, Griffith University</i> - Habitat suitability of juvenile scalloped hammerhead sharks ( <i>Sphyrna lewini</i> ) in Queensland coastal waters	<b>Dr Brett Murphy</b> , <i>Associate Professor, Charles Darwin University</i> - Two decades of changing fire regimes in the Australian monsoon tropics: for better or worse?
11:46 AM					
11:51 AM					
11:54 AM	<b>A/Prof Valentin Heimhuber</b> , <i>University of New South Wales</i> - Prioritising large-scale coastal wetland renewal: A state-wide perspective for maximising blue habitat benefits	<b>Lynette Knapp, Gail Yorkshire, Noongar Boodjar Language Centre, Nat Raisbeck-Brown</b> , <i>CSIRO</i> - Linking Indigenous ecological knowledge to western science through language		<b>Dr Kita Ashman</b> , <i>Threatened Species &amp; Climate Adaptation Ecologist, WWF Australia</i> - Is Australia's environmental legislation protecting threatened species? A case-study of nationally listing the greater glider	<b>Sarah Mulhall</b> , <i>PhD Candidate, University of Melbourne</i> - Reptile responses to habitat, fire and landscape structure in a fire-prone, fragmented landscape
11:54 AM					
11:59 AM					

12:04 PM			<b>Christopher McCormack</b> , <i>Managing Director, Remember The Wild</i> - A new narrative for nature: Storytelling and the future of humannature relationships'	<b>Dr Rochelle Steven</b> , <i>Species Conservation Project Coordinator, WWF-Australia</i> - Tracking mainland quokka recovery post catastrophic bushfire	<b>Joshua Lee</b> , <i>Student, University of New South Wales</i> - Rainforest bird communities threatened by extreme fire
12:04 PM					
12:07 PM	<b>Rebekah Grieger</b> , <i>Research Fellow, Griffith University</i> - Regenerating wetland vegetation: impacts of tidal reinstatement on an abandoned sugarcane farm	<b>Dr Manuela Fischer</b> , <i>Wildlife Ecologist Australian Wildlife Conservancy</i> and <b>Johnny Murlson</b> , <i>Western Yalanji Aboriginal Corporation</i> - Northern Bettongs Bettongia tropica at risk of local extinction on the Mount Carbine Tablelands	<b>Emily Gregg</b> , <i>Phd Candidate, RMIT University</i> - How do we plan and design conservation messaging that is strategic, ethical, and effective?	<b>Samantha Wallace</b> , <i>PhD candidate, The University of Newcastle</i> - Bouncing back from habitat modification - can threatened frogs recover?	<b>Dr Matthew Swan</b> , <i>Research Fellow, University of Melbourne</i> - Birds of a heather; influence of fire regimes on avian communities in contrasting heathland ecosystems
12:09 PM					
12:17 PM					
12:20 PM	<b>Dr Tanya Mason</b> , <i>Research Fellow, UNSW Sydney</i> - Multiple disturbance in upland swamps: top-down and bottom-up controls on primary productivity and species composition	<b>Dr Alison Lullfitz</b> and <b>Shandell Cummings</b> , <i>University of Western Australia</i> - Two-way learnings for conservation in a global biodiversity hotspot	<b>Meg Shaw</b> , <i>Phd Student, Deakin University</i> - How do Australian conservation organisations use wildlife imagery for social engagement?	<b>Charlotte Alley</b> , <i>PhD Student, University of Newcastle</i> - Long-term monitoring of the broad-toothed rat in the Barrington Tops National Park	<b>Dr Chris Jolly</b> , <i>Postdoctoral Research Fellow, Charles Sturt University</i> - Animal mortality during fire: A global systematic review
12:22 PM					
12:30 PM					
12:33 PM	<b>Oliver Dalby</b> , <i>PhD Student, Deakin University</i> - Identifying seagrass-sediment-light thresholds for effective seagrass restoration in Western Port, VIC, AUS.	<b>Vanessa Corunna</b> , <i>Curtin University</i> - Reconnecting to River Research on Wadjuk Noongar Boodja with Traditional Owner	<b>Dr Alex Kusmanoff</b> , <i>Postdoctoral Researcher ICON Science, RMIT University</i> - 'Bins on Boats', a behaviourally-based intervention to curb marine pollution in Bass Straight, Australia.	<b>Joe Zilko</b> , <i>Phd Candidate Monash University</i> - Applying a thorough genetic risk assessment for mixing highland and lowland Leadbeater's possum	<b>Dr Christopher Turbill</b> , <i>Senior Lecturer, Western Sydney University</i> - Fire impacts on golden-tipped bats - a rainforest specialist
12:35 PM					
12:46 PM	<b>Dr Vishnu Prahalad</b> , <i>Lecturer, University of Tasmania</i> - Mammalian use of coastal saltmarshes and implications for the structurally dominant halophytic shrub, <i>Tecticornia arbuscula</i>	<b>Anna Boustead</b> , <i>Indigenous Carbon Industry Network</i> and the <b>ICIN Board representatives</b> - What opportunities does the Indigenous Carbon Industry offer to support better recognition of Indigenous Ecological Knowledge?	<b>Dr Pia Lentini</b> , <i>Senior Research Fellow, RMIT University</i> - Melbourne's coffee consumers are swayed to drink wildlife-friendly coffee by motivations, not messages		<b>Merinda Day-Smith</b> , <i>Masters student, La Trobe University</i> - Does burning reduce fuel loads and fire risk? Or simply create a grass fire cycle?
12:48 PM					
12:48 PM					
12:53 PM					<b>Dr Jodi Price</b> , <i>Senior Lecturer, Charles Sturt University</i> - Grassland plant responses to cultural fire in Dja Dja Wurrung country
12:58 PM					<b>Dr Holly Sitters</b> , <i>The University of Melbourne</i> - Fire promotes functional connectivity in an Australian reptile
1:02 PM	TAILORED RESTORATION RESPONSE: PREDICTIONS AND GUIDELINES FOR COASTAL WETLAND RENEWAL USING ECOLOGICAL THEORY AND DATA - Live QA	INDIGENOUS ECOLOGICAL KNOWLEDGE SYMPOSIUM - Live QA	HUMAN BEHAVIOUR CHANGE AND THE IMPORTANCE OF NATURE CONNECTION FOR HUMANITY'S WELLBEING - Live QA	OPEN FORUM: THREATENED SPECIES (2) - Live QA	OPEN FORUM: FIRE ECOLOGY (1) - Live QA
1:15 PM - 2:15 PM	Lunch (Tuesday)				
	<a href="#">Please click here</a> to visit our online networking hub.				
1:25 PM	ESA Mentoring Program (for potential mentees)				
	<b>CONCURRENT SESSIONS 5</b>				
	<b>OPEN FORUM: MARINE ECOLOGY</b>	<b>PERSPECTIVES ON ENVIRONMENTAL-ECONOMIC ACCOUNTING IN AUSTRALIA</b>	<b>IMPROVING THE INTEGRATION OF THE SOCIAL SCIENCES INTO RESEARCH FOR CONSERVATION CHALLENGES</b>	<b>OPEN FORUM: CONSERVATION ECOLOGY (2)</b>	<b>OPEN FORUM: INVASIVE SPECIES</b>

2:15 PM	<b>Jeremy Day, PhD</b> <i>Student, University of Wollongong/University of Newcastle</i> - Dietary analysis implies only moderate urchin predation by eastern rock lobsters ( <i>Sagmariasus verreauxi</i> )	<b>Dayani Gunawardana,</b> <i>Environmental Economic Accounting Section, Department of Agriculture, Water and the Environment</i> The need for ecologically meaningful ecosystem accounts: a policy perspective	<b>Dr Dave Kendal,</b> <i>University of Tasmania</i> - Ontology: the red pill for understanding humans in ecosystems	<b>Luke Halpin, PhD</b> <i>Candidate, Monash University</i> - Arthropods prey on vertebrates and modify food web dynamics in isolated island ecosystems	<b>Aakansha Chadha, PhD</b> <i>Scholar, Federation University Australia</i> - Ecology and management of rhizomatous weeds in the wet tropics
2:20 PM		<b>Dr Becky Schmidt, Senior</b> <i>Environmental Scientist, CSIRO Land and Water</i> - Ecologically meaningful ecosystem accounts for the Gunbower-Koondrook-Perricoota Forest Icon Site			
2:28 PM	<b>Dr Emily Lester,</b> <i>Postdoctoral Research Scholar, Australian Institute of Marine Science</i> - Relative influence of predators, competitors and seascape heterogeneity on the behaviour of coral reef mesopredators	<b>Dr Anna Richards,</b> <i>Research Scientist, CSIRO Land and Water</i> - Applying dynamic ecosystem models to ecosystem extent accounts for the Gunbower-Koondrook-Perricoota Forest Icon Site	<b>Gabriella Allegretto, PhD</b> <i>Candidate, University of Tasmania</i> - Beyond ecological light pollution: a holistic understanding of the importance of dark-skies for humans and non-humans	<b>Ben Sparrow, The</b> <i>University of Adelaide / TERN</i> - Standardisation and collaboration are key to effective continental-scale long-term vegetation mapping	<b>Julia Rayment, Research</b> <i>Assistant, University of Wollongong</i> - Exotic Perennial Grass Invasion differs between threatened ecological communities within regions of NSW
2:33 PM					
2:38 PM		<b>Dr Tom Harwood, Senior</b> <i>Research Scientist, CSIRO</i> - A condition index that integrates remote sensing and expert knowledge for an experimental ecosystem account			
2:41 PM	<b>Chantel Foord, PhD</b> <i>Candidate, MMF &amp; RMIT</i> - Epidermal lesion prevalence and body condition in Burrunan dolphin populations; a crucial health assessment tool	<b>Dr Chris Ware, Research</b> <i>Scientist, CSIRO</i> - Biodiversity accounts for the Gunbower-Koondrook-Perricoota Forest Icon Site and Murray-Darling Basin	<b>Haylee Kaplan, PhD</b> <i>Candidate, University of Tasmania</i> - Understanding people's perceptions of nativeness in urban contexts	<b>Alexandra Nance, PhD</b> <i>Student, Monash University</i> - Rapid assessment and response: measuring key vital metrics for Norfolk's endemic songbirds and mitigating threat	<b>Tracy Lyten, Director</b> <i>Skylos Ecology Pty Ltd</i> - Using Conservation Detection Dogs in the battle against invasive aquatic weeds
2:43 PM					
2:48 PM		<b>Peter Meadows, Assistant</b> <i>Director, Australian Bureau of Statistics</i> - Using Environmental-Economic Accounts from data to indicators: how the accounts reveal wider use of data			
2:53 PM		<b>Dr Heather Keith, Senior</b> <i>Research Fellow, Griffith University</i> - Ecosystem accounting to assess the value of primary forests			
2:54 PM	<b>Kristina Heidrich, PhD</b> <i>Student, University of Western Australia</i> - Improved reporting by tuna RFMOs needed for optimal protection of large pelagics	<b>Phil Cryle, Senior</b> <i>Economist, DELWP</i> - Victorian Ecosystem Account for the Great Ocean Road	<b>Dimuthu Jayakody, PhD</b> <i>Student, University of Tasmania</i> - Spatial Assessment of Place Attachment to Improve Place-Based Conservation and Environmental Planning	<b>Emma Bennett, PhD</b> <i>Candidate, Monash University</i> - Wind energy kills bats, but it doesn't have to: working with industry for better outcomes	<b>Adam Bernich, Research</b> <i>Assistant, University of Wollongong</i> - Abating the threat of exotic vines and scramblers in Threatened Ecological Communities in NSW
2:58 PM		<b>Anna Busted, Indigenous</b> <i>Carbon Industry Network</i> - Indigenous perspectives on carbon co-benefit and natural capital markets			
3:03 PM					
3:07 PM	<b>Samantha Reynolds, PhD</b> <i>Candidate, The University of Queensland</i> - Anthropogenic impacts on the habitat and physiology of the endangered whale shark <i>Rhincodon typus</i>	<b>Dr Kamaljit Sangha, Ecological</b> <i>Economist, Charles Darwin University</i> - Valuing ecosystem services applying indigenous perspectives	<b>Kim Zoeller, PhD</b> <i>Candidate, James Cook University</i> - The influence of landscape context on the production of cultural ecosystem services	<b>Katherine Hill, PhD</b> <i>Candidate, The University of Adelaide</i> - Feather Forensics: tracing the origins of parrots with stable isotopes and citizen science	<b>Dr Daniel Montesinos, Senior</b> <i>Research Fellow, Australian Tropical Herbarium - James Cook University</i> - Environmental clines as pools of invasive genotypes preadapted to climate change
3:16 PM					
3:20 PM	<b>Jacob Linsky, PhD</b> <i>Candidate, University of Queensland</i> - Understanding humpback whale		<b>Alanna Main, Ecologist</b> <i>EcoFutures Consulting Pty Ltd</i> - 'Vegetation for Amenity': integrating social and amenity values into rianian and wetland	<b>Dr Kate Helmstedt, Senior</b> <i>Lecturer, Queensland University of Technology</i> - Now or later: why conservation	<b>Dr Daniel Montesinos, Senior</b> <i>Research Fellow, Australian Tropical Herbarium - James Cook University</i> - The fast &
3:20 PM					



3:21 PM	(Megaptera novaeangliae) health through adipokine gene expression	<b>Yuqing Chen</b> , <i>Australian National University</i> - Can environmental accounts for land assist government decision making in the Australian Capital Territory?	Open and working revegetation	ecologists should have an interest in discounting	furious: invasives align with the fast side of the plant economics spectrum
3:26 PM		<b>Dr Alison Cowood</b> , <i>Assistant Director, Department of Agriculture, Water and The Environment</i> - An overview of the first national land account for Australia			<b>Zoe Xirocostas</b> , <i>PhD Student, UNSW Sydney</i> - A narrow escape: Enemy release explains success in only some invasive plants
3:31 PM		<b>Professor Richard Lucas</b> , <i>Aberystwyth University</i> - Linking land cover change to land and ecosystem accounts			
3:33 PM	<b>Jaelen Myers</b> , <i>Phd Candidate, James Cook University</i> - Going with the flow: assessing movements and behaviours of stingrays in sandflats with aerial drones			<b>Emma Carlson</b> , <i>Ecologist, ACT Government</i> - Weather driven patterns of burrow dynamics contribute to population fluctuations in a rare grassland reptile	
3:38 PM	<b>Yi Mei Tan</b> , <i>Phd Candidate, Deakin University</i> - Cultivating the intertidal seagrass, <i>Zostera muelleri</i> , for application in restoration programmes			<b>Dr Susan Nuske</b> , <i>Swedish University of Agricultural Sciences</i> - Are we losing native truffle species before we can describe them?	
3:44 PM		<b>Michael Traurig</b> , <i>Phd Candidate, Deakin University</i> - A review of the relationships between ecosystem condition and ecosystem services			
3:45 PM	<b>OPEN FORUM: MARINE ECOLOGY - Live QA</b>		<b>IMPROVING THE INTEGRATION OF THE SOCIAL SCIENCES INTO RESEARCH FOR CONSERVATION CHALLENGES - Live QA</b>	<b>OPEN FORUM: CONSERVATION ECOLOGY (2) - Live QA</b>	<b>OPEN FORUM: INVASIVE SPECIES - Live QA</b>
3:50 PM		<b>PERSPECTIVES ON ENVIRONMENTAL-ECONOMIC ACCOUNTING IN AUSTRALIA - Live QA</b>			
4:00 PM - 4:15 PM	Afternoon tea (Tuesday)				
	Please <a href="#">click here</a> to visit our online networking hub.				
<b>CONCURRENT SESSIONS 6</b>					
	<b>FOREST RESTORATION AND RECOVERY</b>	<b>OPEN FORUM: HERBIVORY AND GRAZING ECOLOGY</b>	<b>OPEN FORUM: PLANT TRAITS</b>	<b>OPEN FORUM: CONSERVATION POLICY AND MANAGEMENT</b>	<b>OPEN FORUM: URBAN ECOLOGY</b>
4:15 PM	<b>Associate Professor Andrew Marshall</b> , <i>University of the Sunshine Coast</i> - Essential science advances for effective restoration of the world's forest landscapes	<b>Miranda Rew-Duffy</b> , <i>The University of Queensland</i> - The response of small mammals and reptiles to livestock grazing and time-since-fire in Central Queensland	<b>Dr Rachael Gallagher</b> , <i>Hawkesbury Institute for the Environment, Western Sydney University</i> - Climatic drivers of plant trait composition at the continental scale	<b>Professor Brendan Wintle</b> , <i>Professor In Conservation Ecology, University of Melbourne</i> - Toward reproducible ecological-economic predictions of global climate and land use change impacts on biodiversity	<b>Carly Campbell</b> , <i>PhD Candidate, Griffith University</i> - Long-term changes in bird species prevalence in Australia's largest urban regions
4:28 PM	<b>Emma Mackintosh</b> , <i>PhD Candidate, University of the Sunshine Coast</i> - What are the implications of liana-rattan-tree competition on forest recovery from disturbance?	<b>Dr Thomas Richards</b> , <i>Postdoc, Uppsala University</i> - Separating Direct and Indirect Effects of Ungulate Grazers on Population Dynamics of a Grassland Herb	<b>A/Prof Daniel Falster</b> , <i>ARC Future Fellow University of New South Wales Sydney</i> - Three large-scale forces structuring assembly of plant communities	<b>Peggy Newman</b> , <i>Data Manager, Atlas of Living Australia</i> - Improving data quality, robustness and sustainability in the ALA	<b>Matthew Hall</b> , <i>Phd Candidate, The University of Sydney</i> - Distribution shift and habitat use of an urban colonising bird, the Australian Brush-turkey ( <i>Alectura lathami</i> )

4:41 PM	<b>Charlotte Raven</b> , <i>Student, University of The Sunshine Coast</i> - Invertebrate Response to Disturbance Induced Liana Growth in Tropical Rainforest	<b>Dr Pat Taggart</b> , <i>Research Scientist, Vertebrate Pest Research Unit, Department of Primary Industries NSW</i> - Recovering Australia's arid-zone ecosystems: Learning from continental-scale rabbit control experiments	<b>Alicia Cook</b> , <i>Research Associate, University of Technology Sydney</i> - Can leaf traits explain variation in plant photosynthetic thermal tolerance?	<b>Dr Payal Bal</b> , <i>Postdoctoral Research Fellow, University of Melbourne</i> - Predicting future biodiversity land use conflicts	<b>Dr Laura Brannelly</b> , <i>Research Fellow, The University of Melbourne</i> - Developmental stressors are detrimental to larval amphibians, but compensatory growth can mediate these long-term effects
4:54 PM	<b>Dr Catherine Waite</b> , <i>University of the Sunshine Coast</i> - The impact of lianas on Australian rainforest recovery: where should we focus?	<b>Sophia Cain</b> , <i>Student, Australian National University</i> - Effects of macropod herbivory on intraspecific plant trait variation and consequences for forest flammability	<b>Shubham Chhajed</b> , <i>PhD Candidate, Macquarie University</i> - Save it or spend it: water budgets and hydraulic coordination to optimize photosynthetic gains	<b>Dr Dax Kellie</b> , <i>Atlas of Living Australia</i> - The changing shape of data in the Atlas of Living Australia	<b>Dr Paul Maxwell</b> , <i>General Manager, EcoFutures Consulting</i> - Managing for biodiversity outcomes in degraded urban streams
4:59 PM	<b>Amanda Lo Cascio</b> , <i>PhD Candidate, The University of Melbourne</i> - Does context matter? Drivers of microbat distributions in fragmented, fire-prone landscapes	<b>Montee Bonnefin</b> , <i>Honours Student, La Trobe University</i> - Beyond climate change: How does disturbance affect plant composition and shrub dynamics in alpine grasslands?			
5:04 PM	<b>Dr Gerard Ryan</b> , <i>Statistical Modeller &amp; Honorary Research Fellow, Telethon Kids Institute &amp; The University of Melbourne</i> - Predicting the impacts of forestry, fire and climate change on threatened fauna for policy decisions	<b>Alex Blackburn-Smith</b> , <i>Masters Candidate, La Trobe University</i> - What the heck is a <i>Caltha introloba</i> ? And why should we care?			
5:07 PM			<b>Professor Ian Wright</b> , <i>Macquarie University</i> - Coordinated leaf and wood traits drive field growth rates in Australian savanna species	<b>Shawan Chowdhury</b> , <i>Data Analyst, Atlas of Living Australia</i> - EcoAssets: Research data for environmental indicators	<b>Kristen Thompson</b> , <i>PhD Candidate, Queensland University of Technology (QUT)</i> - Can insectivorous bats be used as an indicator for monitoring urban bushland restoration?
5:09 PM	<b>Collette Blyth</b> , <i>PhD Candidate, University of Adelaide</i> - Increased Genetic Diversity via Gene Flow Provides Hope for an Endangered Wattle Facing Extinction	<b>Daniel Nugent</b> , <i>PhD Candidate, La Trobe University</i> - Livestock production land and conservation areas play a complementary role in conservation of the Plains-wanderer			
5:20 PM			<b>Kali Middleby</b> , <i>PhD Candidate, James Cook University</i> - Modelling the drivers of leaf temperature extremes in tropical tree	<b>Dr Iadine Chades</b> , <i>Principal Research Scientist, CSIRO</i> - EcoAssets: Research data for environmental indicators	<b>Dr Scarlet Howard</b> , <i>Deakin University</i> - Complex preference relationships between native and non-native angiosperms and foraging insect visitors
5:22 PM		<b>Corinne Schlierenzauer</b> , <i>PhD Student, Queensland University of Technology</i> - Different kinds of herbivores and plant invasion: their impact on plant diversity in grassy woodlands			
5:27 PM		<b>Dr Gabrielle Lebbink</b> , <i>Postdoctorate Research Fellow, Queensland University of Technology</i> - How to measure the battle between plants and herbivores			
5:30 PM	<b>FOREST RESTORATION AND RECOVERY - Live QA</b>				
5:33 PM			<b>Antionette Portelli</b> , <i>Research Assistant, University of Melbourne</i> - Effect of Phylogeny on Functional Traits and their Relationships in Southern Australian Eucalypts	<b>Dr Kate Watermeyer</b> , <i>Research Fellow, Deakin University</i> - Progress and future of the Red List of Ecosystems in marine systems	<b>Dr Stephanie Courtney-Jones</b> , <i>Conservation Research - ACT Government, The Australian National University</i> - Urban connectivity: Using expert elicitation to inform ecological connectivity in the ACT
5:35 PM		<b>OPEN FORUM: HERBIVORY AND GRAZING ECOLOGY - Live QA</b>			
5:45 PM				<b>Dr Vishnu Prahalad</b> , <i>Lecturer, University of Tasmania</i> - Offsets, not for endless compound growth, but do growth	<b>OPEN FORUM: URBAN ECOLOGY - Live QA</b>
5:46 PM					

5:46 PM			<b>Mark Westoby,</b> <i>Macquarie University</i> - Trait ecology of startup plants	growth, but de-growth and a steady-state economy	
5:51 PM				<b>Cameron Gallagher,</b> <i>Spatial Planner, ACT Parks and Conservation</i> - Optimising digital data collection tools for ecological monitoring programs	
6:00 PM			OPEN FORUM: PLANT TRAITS - Live QA	OPEN FORUM: CONSERVATION POLICY AND MANAGEMENT - Live QA	
6:00 PM	Ecological Society of Australia AGM				
7:00 PM	ONLINE TRIVIA ! Join in the fun and win a complimentary 12 month ESA Membership				

### Wednesday, November 24, 2021

PLENARY SESSION THREE					
PLENARY SESSION 3					
AUSTRALIAN ECOLOGY RESEARCH AWARD (AERA) WINNER PRESENTATION: <b>Professor Euan Ritchie,</b> <i>Deakin University</i>					
NZ TE TOHU TAIAO PRESENTATION : <b>George Perry</b>					
<i>Participation in the Wednesday workshops is optional, and pre-registration is required. Numbers are limited</i>					
11:00 AM	Workshop: Writing for Publication	Workshop: A beginners guide to Data Analysis and Visualisation in R for Ecologists in the EcoCommons' cloud	Workshop: Empowering Indigenous land managers to use digital technologies to help monitor and manage Country	Workshop: Long live ecology – the case for an Australian long-term ecological research (LTER) Community of Practice	Workshop: Publishing data in the TERN Data Infrastructure
1:00 PM		Workshop: Selection criteria and the hidden job market: removing the invisibility cloak			
2:00 PM			Workshop: Using the EcoCommons platform to run species distribution models and make climate projections		

### Thursday, November 25, 2021

PLENARY SESSION FOUR					
PLENARY SESSION 4					
WILEY NEXT GENERATION ECOLOGIST AWARD WINNER PRESENTATION: <b>Dr Heather Neilly,</b> <i>Terrestrial Ecologist, The Australian Landscape Trust</i>					
KEYNOTE PRESENTATION: Open Ecosystems and the challenge of defining them for Australia, <b>Professor William Bond,</b> <i>Emeritus Professor, University of Capetown</i>					
11:00 AM - 11:15 AM Morning tea (Thursday)					
Please <a href="#">click here</a> to visit our online networking hub.					
CONCURRENT SESSIONS 7					
	<b>ECOSYSTEM RECOVERY AND THE FORGOTTEN ELEMENTS OF FIRE REGIMES: HOW ECOSYSTEMS RESPOND TO CHANGES IN FIRE SEASON, EXTENT, AND SEVERITY (1)</b>	<b>REMOTE SENSING IN ECOLOGY (1)</b>	<b>ENGAGING COMMUNITY IN THE SCIENCE AND STORIES OF NATURE THROUGH SCIENCE-ARTS COLLABORATIONS</b>	<b>USING SOIL MICROBES TO RESTORE, REGROW AND REWILD</b>	<b>OPEN FORUM: CLIMATE CHANGE</b>

11:15 AM	<b>Professor David Keith</b> , <i>University of New South Wales</i> - Ecological effects of Australia's Black Summer fires through an ecosystem lens: a national-scale assessment	<b>Dr Shaun Levick</b> , <i>Principal Research Scientist, CSIRO</i> - session introduction	<b>Dr Mark Nadir Runkovski</b> , <i>Senior Environmental Scientist, Natura Pacific</i> - Back from the Brink - communicating Queensland's extinction crisis through films and podcasts	<b>Dr Christina Birnbaum</b> , <i>Research Fellow, RMIT University</i> - Microbial community structure and function in dried peat and intact bog along soil depth gradient	<b>Dr Nicholas Clark</b> , <i>Lecturer and ARC DECRA Fellow, University of Queensland</i> - Rapid winter warming associated with major shifts in coastal fish communities
11:20 AM		<b>Dr Tim Brown</b> , <i>Director Australian Plant Phenomics Facility, ANU node</i> - High resolution data, national Infrastructure and ecosystem modelling to enable a carbon neutral Digital Australia			
11:28 AM	<b>James Barker</b> , <i>PhD Student, University of Wollongong</i> - The severity of the 2019-20 fires in Australia was influenced by past fires		<b>Dr Penelope Jones</b> , <i>Lecturer, University of Tasmania</i> - Imagining Iutruwita's Deep Time: a journey through science, art and song	<b>Dr Annemarie Clements</b> , <i>Ecologist, Anne Clements &amp; Associates Pty Limited</i> - Re-establishing soil fungal hyphal matrix proved critical for storm protection on coastal dune ecosystems	<b>Alexandra Caitling</b> , <i>PhD Candidate, The University of Queensland</i> - Surviving and thriving as an annual plant: the relative importance of water, cover and competition
11:33 AM		<b>Dr Chris Owers</b> , <i>Postdoctoral Fellow, CSIRO</i> - Towards annual continental-scale habitat condition monitoring for Australia			
11:41 AM	<b>Sarah McColl-Gausden</b> , <i>PhD Candidate, The University of Melbourne</i> - The fuel-climate-fire conundrum: How will fire regimes change in temperate Australian ecosystems?		<b>Dr John Gould</b> , <i>Research scientist and ecologist, The University of Newcastle</i> - Let me take a selfie: intraspecific skin feature variability allows for photo-identification of Australian anurans	<b>Shae Jones</b> , <i>PhD Student University of Wollongong</i> - Heatwaves and drought - How will Arbuscular Mycorrhizal Fungi help conserve our native communities?	<b>Dony Indiarito</b> , <i>PhD Student, UNSW</i> - From wide to narrow: How fitness landscapes determine species persistence under directional climate change
11:46 AM		<b>Al Healy</b> , <i>Phd Student, University of Queensland</i> - Measuring changes in dryland grasslands using phenocams and remote sensing	<b>Anthony Albrecht</b> , <i>PhD Candidate, Charles Darwin University</i> - A survey of the arts in conservation communication strategy		
11:46 AM					
11:51 AM			<b>Jackie Randles</b> , <i>Manager, Inspiring Australia NSW</i> - Engage advocates and spark action through creative ecology encounters		
11:54 AM	<b>Dr Rachael Collett</b> , <i>Deakin University</i> - Impact of the megafires and changing fire regimes on butterflies in the Australian Alps			<b>Professor Kirsten Parris</b> , <i>The University of Melbourne</i> - Russell the growling grass frog goes to Jacana wetlands	<b>Frederick A. Dadzie</b> , <i>Phd Candidate, UNSW</i> - Harnessing soil microbial communities to improve restoration success in arid ecosystems
11:56 AM		<b>Dr Kristen Williams</b> , <i>Principal Research Scientist, CSIRO Land and Water</i> - Using satellite-based remote sensing and modelling to estimate habitat condition, change and trends			
11:59 AM					
12:04 PM		<b>Dr Leo Hardtke</b> , <i>Department of Environment and Science, QLD</i> - Mapping Queensland's terrestrial vegetation condition, the Saptial BioCondition modelling framework			
12:07 PM	<b>Dr Michelle Gibson</b> , <i>Postdoctoral Researcher, The University of Queensland</i> - Response of Australia's woodland bird community to fire: a review and meta-analysis		<b>Juliet Scrine</b> , <i>CEO Eaton Gorge Theatre Company</i> - Cats, bats and squirrel gliders, a theatrical approach to scientific communication	<b>Dr Katinka Ruthrof</b> , <i>Research Scientist (Fire Ecology), Department of Biodiversity, Conservation and Attractions (DBCA)</i> - Microbial responses to hotter drought and wildfire in a Mediterranean-climate type forest	<b>Phil Pearson</b> , <i>Phd Candidate, University of Canberra</i> - The effects of sex reversal and developmental temperature on offspring performance
12:09 PM		<b>Gerald Page</b> - Satellite-based monitoring of intra- and inter-annual vegetation dynamics in the rangelands			
12:14 PM		<b>Dr Randall Donohue</b> , <i>Principal Research Scientist, CSIRO</i> - Remote sensing of Australian grassland characteristics			
12:19 PM		<b>Kaitlyn Hammond</b> , <i>Phd Candidate, University of Melbourne</i> - How catastrophic is catastrophic? Assessing forest structural heterogeneity after the 2009 Black Saturday bushfires			
12:20 PM	<b>Madeline Newbery</b> , <i>Research Assitant, University of Wollongong</i> - The impact of invisible fire mosaics on the recovery of vegetation after the		<b>Dr Sheryn Pitman</b> , <i>Project Lead, Adelaide National Park City Green Adelaide</i> ,	<b>Emma Stevens</b> , <i>Master's Student, University of Western Australia</i> - Initial responses of soil microbiology to forest thinning	<b>Dr Erica Marshall</b> , <i>University of Melbourne</i> - State-wide predictions of Victoria's future fire risk under climate change
12:22 PM					

12:24 PM	2019-20 wildfires	<b>Sandra Penman, PhD Candidate, The University of Melbourne</b> - Using Terrestrial LiDAR to characterise post-fire habitat structure in dry Eucalypt forest	<i>Department for Environment and Water, South Australia</i> - Ancient ants, oyster reefs, seaweed bioproducts, megafauna and more - inspirational pathways to understanding nature	
12:29 PM		<b>Linda Luck, PhD Candidate, Charles Darwin University</b> - Reduced model complexity for tracking savanna tree biomass with terrestrial LiDAR		
12:33 PM	<b>Brittany Mitchell, PhD Candidate, UNSW Sydney/Australian Museum</b> - Fighting the flames: Impacts of occurrence and severity of fire on Australian frogs	<b>Dr Jose Ferrer-Paris, Research Fellow, University of New South Wales</b> - The quest for mapping the ecosystem of the Earth	<b>Dr Dana Bergstrom, Terrestrial Ecologist, Australian Antarctic Division</b> - Telling a climate change impact story through theatre	<b>Aaron Brace, PhD Candidate, Edith Cowan University</b> - Temporal changes in soil microbial community compositions of a threatened ecological community post disturbance.
12:34 PM				
12:35 PM				
12:38 PM	<b>Jenny Shih-Wen Huang, Graduate Student, The University of Melbourne</b> - Assessing the usefulness of expert knowledge and empirical data in managing bushfire for biodiversity	<b>Joao Filipe, Student Murdoch University</b> - Remotely-sensed functional traits can indicate adaptive capacity to climate change of trees from Mediterranean-type ecosystems		<b>Dr Adam Frew, Lecturer, University of Southern Queensland</b> - Plant protection by arbuscular mycorrhizas: A role for fungal diversity?
12:39 PM				
12:43 PM	<b>Mitchell Johnston, Student, Deakin University</b> - Impacts of prescribed burning to the diversity of fungi and plants in a heathy woodland	<b>Dr Kwang-Ho Bae, Geospatial Data Scientist FMG</b> - Detection of bat caves with Airborne LIDAR and Photogrammetry using local relief mode		<b>Dr Hongwei Liu, Western Sydney University</b> - Evidence for the plant recruitment of beneficial microbes to suppress soil-borne pathogens
12:44 PM				
12:48 PM	<b>ECOSYSTEM RECOVERY AND THE FORGOTTEN ELEMENTS OF FIRE REGIMES: HOW ECOSYSTEMS RESPOND TO CHANGES IN FIRE SEASON, EXTENT, AND SEVERITY (1) - Live QA</b>	<b>Linda Riquelme, PhD Candidate, University of Melbourne</b> - Understanding forage availability for managing total grazing pressure in endangered Buloke ( <i>Allocasuarina luehmannii</i> ) Woodlands	<b>ENGAGING COMMUNITY IN THE SCIENCE AND STORIES OF NATURE THROUGH SCIENCE-ARTS COLLABORATIONS - Live QA</b>	<b>Dr Tracey Steinrucken, Postdoctoral Fellow, CSIRO</b> - A giant rat's tale: prioritizing pathogens to develop a biocontrol agent against weedy <i>Sporobolus</i> grasses
12:48 PM				
12:49 PM				
12:50 PM				
12:53 PM				
12:54 PM				<b>Meg Brown, Honours Graduate, University of Sydney</b> - Investigating the influence of community dynamics on machine learning performance
12:59 PM				<b>Rebecca Rogers, PhD Candidate, Charles Darwin University</b> - Weather radar compliments animal telemetry data to better understand the movement ecology of aggregating waterbirds
1:01 PM				<b>Professor Stuart Phinn, The University of Queensland</b> - Translating Ecological Remote Sensing for Monitoring and Managing Disturbance and Recovery in Australian Ecosystems
1:04 PM				
1:10 PM				<b>REMOTE SENSING IN ECOSYSTEMS</b>
				<b>Lily Leahy, PhD Candidate James Cook University</b> - Thermal ecology of tropical rainforest ants in a warming world: the importance of arboreality
				<b>Beatrice Dewenter, PhD Candidate, University of Canberra</b> - The role of temperature variability in determining effects of climate change on stream macroinvertebrates
				<b>Professor Stephen Williams, James Cook University</b> - Long-term declines in rainforest birds in the Australia Wet Tropics: a climate-driven biodiversity emergency
				<b>Melika Missen, PhD Candidate, University of Tasmania</b> - Frequency of watering influences the photosynthetic benefit of elevated CO <sub>2</sub> in the field
				<b>Samantha Andres, PhD Candidate, Hawkesbury Institute for the Environment</b> - Does listing status predict climate change risk? A case study with Australian <i>Personia</i> (Proteaceae) species
				<b>OPEN FORUM: CLIMATE CHANGE - Live QA</b>

1:15 PM		ECOLOGY (1) - Live QA		USING SOIL MICROBES TO RESTORE, REGROW AND REWILD - Live QA	
1:30 PM	Lunch (Thursday)				
	Please <a href="#">click here</a> to visit our online networking hub.				
1:45 PM	Lunchtime mentoring session - Thursday				
	ESA Mentoring Program (for potential mentors from academia and industry)				
<b>CONCURRENT SESSIONS 8</b>					
	<b>ECOSYSTEM RECOVERY AND THE FORGOTTEN ELEMENTS OF FIRE REGIMES: HOW ECOSYSTEMS RESPOND TO CHANGES IN FIRE SEASON, EXTENT, AND SEVERITY (2)</b>	<b>REMOTE SENSING IN ECOLOGY (2)</b>	<b>RENEWAL OR REIMAGINATION? WHAT WE LEARNED TEACHING ECOLOGY IN UNUSUAL TIMES</b>	<b>OPEN FORUM: PATHOGENS AND PARASITES</b>	<b>OPEN FORUM: ECOLOGICAL MODELLING (1)</b>
2:30 PM	<b>Dr Mark Ooi, Senior Research Fellow, University of New South Wales</b> - The impacts of severe fires on plant populations	<b>Professor Hamish Campbell, Charles Darwin University</b> - session introduction	<b>Professor Dieter Hochuli, The University of Sydney</b> - Opportunities and threats to teaching ecology in universities	<b>Danielle Wallace, PhD student, The University of Melbourne</b> - The unexpected effects of wildlife disease – does chytridiomycosis influence frog breeding displays?	<b>Julia Pilowsky, PhD Student, University of Adelaide</b> - Simulating species' range dynamics across multiple millennia using process-explicit and pattern-oriented models
2:30 PM					
2:35 PM					
2:43 PM	<b>Nate Anderson, PhD Student, University of Western Australia</b> - Seasonal fluctuations in live foliar moisture delineate fire seasons in Mediterranean-type Banksia woodlands	<b>Dr Renee Bartolo, Principal Research Scientist, Department of Agriculture, Water and Environment</b> - Supervising Science Branch - Learnings in collecting drone data and labelling for identifying savanna trees species using artificial intelligence	<b>Dr Anna Hopkins, Senior Lecturer, Edith Cowan University</b> - How do we make online teaching equivalent to an on-campus experience in soil ecology?	<b>Nynke Raven, PhD Student Deakin University</b> - Ecoimmunology of an endangered marsupial, the Tasmanian devil ( <i>Sarcophilus harrisi</i> )	<b>Dr Elisa Bayraktarov, Ecocommons Program Manager, Griffith University</b> - EcoCommons - the platform of choice for ecological and environmental modelling
2:48 PM	<b>Susanna Bryceson, Graduate Researcher, La Trobe University</b> - Leaves, litter and lineage: links to flammability?	<b>Eliane McCarthy, Master of Research graduate, Western Sydney University</b> - Drone-acquired thermal imagery as an effective tool for the management and conservation of flying-fox colonies	<b>Devika Nair, PhD Student, Research Institute for Environment &amp; Livelihoods, Charles Darwin University</b> - Stream Suspended mud as an indicator of post mining landform stability	<b>Robert O'Reilly, PhD Candidate, Flinders University</b> - Using flow cytometry to examine viral community variation over an ecological gradient, in a skink	<b>Dr Sam Nicol, Senior Research Scientist, CSIRO</b> - Inferring the structure of migratory bird networks from eBird data
2:53 PM	<b>Ella Plumanns Pouton, PhD Candidate, University of Melbourne</b> - Using plant functional types to predict the influence of fire regimes on heathland plant diversity	<b>Sophie Walker, PhD Candidate, James Cook University</b> - Drones are a powerful potential tool for conservation, what is holding back their use?			
2:56 PM					
3:01 PM					
3:06 PM	<b>Harriet Simpson-Southward, PhD Candidate, University of Wollongong</b> - Effects of climate change on resilience of fire prone eucalypt communities	<b>Jay Nicholson, Botanist Department of Agriculture, Water and the Environment</b> - Millennial ecology - are drones and artificial intelligence replacing botanists?	<b>Dr Jo-Anne Kelder, Adjunct Senior Researcher, University of Tasmania</b> - Learning to live sustainably: using online curricula to harness place-based, authentic experiential learning	<b>Lucas Hearn, PhD Student Flinders University</b> - Variation in parasitism of a stem-nesting bee suggests benefits of sociality vary across the life-cycle	
3:09 PM					
3:14 PM					
3:19 PM	<b>Francois Brassard, PhD Student, Charles Darwin University</b> - How do varying fire regimes affect savanna ant communities through time?		<b>Dr Leanda Mason, Sessional Academic, Curtin University</b> - Decolonising science through co-teaching consilience	<b>Tom Mansfield, PhD Murdoch University</b> - Biological bulldozer meets ecosystem engineer: effects of <i>Phytophthora</i> dieback on quenda habitat and foraging activities	
3:22 PM					
3:24 PM	<b>Alexandria Thomsen, PhD Candidate, University of New South Wales</b> - Impacts of			<b>Dr Saras Windecker, Research Fellow, University of Melbourne</b> - Hierarchical trait-based point process model for distributions of presence-only data	

3:27 PM	Trace impacts of extreme fire severity on wet sclerophyll forests	<b>Stephanie Johnson, PhD Candidate, La Trobe University</b> - Come fly with me: recreating the 3D structure of vegetation with drone-based photogrammetry  <b>Naima Andrea Lopez, PhD Candidate, University of Western Australia</b> - Identification of the southernmost aggregation of juvenile scalloped hammerheads ( <i>Sphyrna lewini</i> ) in Australia  <b>Dr Debbie Saunders, Conservation Ecologist &amp; Founder, Wildlife Drones &amp; ANU</b> - Dead or alive: advances in drone radio-tracking technology for detecting and locating radio-tag mortality signals	<b>Dr Francesca Van Den Berg, Associate Lecturer, The University of Sydney</b> - Outdoors and online: Can remote field trips replicate authentic learning experiences for first year students?	<b>Alana Delaine, Student The University of Adelaide</b> - <i>Psyllaephagus</i> , an important but problematic genus of parasitoid wasps	<b>Thomas Chen, Academy for Mathematics, Science, and Engineering</b> - A Computer Vision Framework for Urban Ecology Conservation
3:29 PM	<b>Ruby Paroissien, Research Assistant, UNSW</b> - Effects of fire season on the reproductive success of the post-fire flowerer <i>Doryanthes excelsa</i>				
3:32 PM					
3:34 PM	<b>Dr Ryan Tangney, Research Fellow, UNSW</b> - Fire season affects plant recovery following fire: evidence from a global meta-analysis				
3:37 PM					
3:40 PM		<b>Dr Yvonne Davila, Senior Lecturer, University of Technology Sydney</b> - Thinking like an ecologist: Pivoting field-based learning to an online environment to enhance student learning	<b>Berta Blanch-Lazaro, PhD Candidate, Deakin University</b> - Investigating beak and feather disease virus infection in crimson rosellas ( <i>Platycercus elegans</i> )	<b>Dr Shane Morris, Postdoctoral Researcher University of Tasmania</b> - Using mechanistic niche models to understand wombat activity patterns and their implications	
3:45 PM					<b>Ko-Huan Lee, Macquarie University</b> - Bacterial and parasitic effects on the performance of lizards
3:50 PM					
3:55 PM	<b>ECOSYSTEM RECOVERY AND THE FORGOTTEN ELEMENTS OF FIRE REGIMES: HOW ECOSYSTEMS RESPOND TO CHANGES IN FIRE SEASON, EXTENT, AND SEVERITY (2)</b> - Live QA	<b>REMOTE SENSING IN ECOLOGY (2)</b> - Live QA	<b>RENEWAL OR REIMAGINATION? WHAT WE LEARNED TEACHING ECOLOGY IN UNUSUAL TIMES</b> - Live QA	<b>OPEN FORUM: PATHOGENS AND PARASITES</b> - Live QA	<b>OPEN FORUM: ECOLOGICAL MODELLING (1)</b> - Live QA
4:10 PM - 4:30 PM	Afternoon tea (Thursday) Please <a href="#">click here</a> to visit our online networking hub.				
<b>CONCURRENT SESSIONS 9</b>					
	<b>ECOSYSTEM RECOVERY AND THE FORGOTTEN ELEMENTS OF FIRE REGIMES: HOW ECOSYSTEMS RESPOND TO CHANGES IN FIRE SEASON, EXTENT, AND SEVERITY (3)</b>	<b>REMOTE SENSING IN ECOLOGY (3)</b>	<b>OPEN FORUM: ECOSYSTEM RESTORATION (1)</b>	<b>OPEN FORUM: PLANT AND SOIL ECOLOGY</b>	<b>OPEN FORUM: ECOLOGICAL MODELLING (2)</b>
4:30 PM	<b>Dr Simon Verdon, Research Fellow, La Trobe University</b> - Post-fire succession creates shifting population hotspots for multiple threatened bird species	<b>Dr Petra Kuhnert, Senior Research Scientist, CSIRO Data61</b> - Vizumap: An R package for visualising uncertainty in spatial data	<b>Daniel Gautschi, Australian National University</b> - Artificial nest use by two sympatric species: are restoration efforts supporting endangered or pest birds?	<b>Giancarlo Chiarenza, PhD Student, Unsw Sydney</b> - Standing on the shoulders of misdirected giants: are ecologists focusing on the wrong soil variables?	<b>Dr Robyn Shaw, Postdoctoral Research Fellow, Murdoch University</b> - Ecological processes driving landscape-scale patterns in the Pilbara mammal community

4:43 PM	<b>Casey Kirchoff</b> , <i>PhD Candidate, University of New South Wales</i> - Watching the world turn green: citizen scientists mobilise to monitor post-fire recovery	<b>Dr Mariana Campbell</b> , <i>Post-doc Research Fellow, Charles Darwin University</i> - Remote sensing in freshwater turtle ecology	<b>Nathali Machado-de-Lima</b> , <i>University of New South Wales</i> - Microbial communities underpin the threats of bushfires and mining in the Newnes Plateau Shrub Swamps	<b>A/Prof Rachel Standish</b> , <i>Murdoch University</i> - Looking belowground to explain plant species coexistence in a biodiversity hotspot	<b>Dr Natalie Briscoe</b> , <i>Research Fellow, The University of Melbourne</i> - Can dynamic occupancy models improve predictions of species' range dynamics? A test using Swiss birds.
4:56 PM	<b>Sydney Collett</b> , <i>Phd Student, Charles Darwin University</i> - Impacts of early prescribed burning on granivorous finch site utilisation	<b>Dr Laura Ruykys</b> , <i>Terrestrial Ecologist, Northern Territory Government</i> - Call playback increases the probability of detecting ghost bats away from the roost	<b>Dr Robert Kooyman</b> , <i>Research Fellow, Macquarie University</i> - Rainforest restoration: building resilience with genetic diversity in times of change	<b>Theresa O'Brien</b> , <i>Masters Candidate, University of New South Wales</i> - Reducing measurement error in tree growth estimates from repeat forest surveys using longitudinal models	<b>Anwar Hossain</b> , <i>Phd Student, University of Melbourne</i> - Estimating and conserving patterns of grasshopper diversity and richness in Western Australia
5:09 PM		<b>Brittany Hayward-Brown</b> , <i>Research Assistant, Charles Darwin University, Research Institute of Environment and Livelihoods</i> - Passive telemetry reveals	<b>Isabel Ely</b> , <i>Phd Student REIL/CDU</i> - Conservation of the Long-necked turtle adopting a Two Ways approach in the Finnis River floodplains		
5:09 PM	<b>Asitha Samarawickrama</b> , <i>Master of Science Candidate, University of the Sunshine Coast</i> - The impact of cultural burns on koala density and habitat characteristics on Minjerribah	<b>Hannah Calich</b> , <i>PhD Candidate, University of Western Australia</i> - Investigating megafauna movement and behaviour with Statistical Physics methods: A primer for Ecologists	<b>Lena Alice Schmidt</b> , <i>PhD Candidate, Hawkesbury Institute For The Environment Western Sydney University</i> - Native versus exotic floral strips play distinctively different roles in supporting pollinators year-round in agroecosystems	<b>Travis Britton</b> , <i>PhD student, University of Tasmania</i> - Don't stand so close to me: neighbour identity and proximity strongly impact eucalypt growth	<b>Islay McDougall</b> , <i>Student University of Melbourne</i> - Predicting the distribution of the Plains-wanderer, a critically endangered grassland bird
5:14 PM		<b>Lauren Hawkins</b> , <i>Phd Candidate, Centre For Marine Science &amp; Technology, Curtin University</i> - Passive acoustic monitoring of fish choruses along the Australian southern continental shelf	<b>Dr Nick Schultz</b> , <i>Lecturer, Federation University Australia</i> - Soil reconstruction after mining fails to restore soil function in an Australian arid ecosystem		
5:19 PM		<b>Dr Martino Malerba</b> , <i>Postdoctoral Fellow Deakin University</i> - Effects of farm dams on frog biodiversity and carbon cycles	<b>Peter Contos</b> , <i>Phd Candidate, La Trobe University</i> - Rewilding with invertebrates and microbes: tiny tools for ecological restoration		
5:22 PM	<b>Joshua Whitehead</b> , <i>Phd Candidate, University of New England</i> - Spring burns are not good for pollinators	<b>Dr Daniella Teixeira</b> , <i>Research Fellow, Griffith University</i> - Practical considerations for efficient acoustic monitoring	<b>Jake Wallace</b> , <i>PhD Candidate, Federation University</i> - PCLake+: Modelling stable states, critical nutrient loading, and weed harvesting in a man-made Australian Lake	<b>Manjunatha Chandregowda</b> , <i>Phd Student, Hawkesbury Institute for the Environment</i> - C3 & C4 grasses differ in their resource acquisition strategies, while responses to drought are species specific	<b>Kevin Newman</b> , <i>Phd Candidate, The University of Melbourne</i> - An Analytical Solution for Optimising Multi-species Detection Surveys
5:24 PM		<b>Michelle van Compernelle</b> , <i>Phd Candidate, University of Western Australia</i> - A Global Threat Index for Marine Megafauna (TIMM)	<b>A/Prof Alex Kutt</b> , <i>Conservation Science and Planning Manager Tasmanian Land Conservancy</i> - Building resilience in Tasmanian Eastern Quoll <i>Dasyurus viverrinus</i> through targeted supplementation of wild populations		
5:29 PM	<b>Jeremy Johnson</b> , <i>PhD Candidate, University of Melbourne</i> - Mammal response to increased wildfire frequency and severity in montane forests of Victoria			<b>Dr Aubrie James</b> , <i>Postdoctoral Fellow, University of Queensland</i> - Positive frequency - and density-dependent interactions occur often in a hyperdiverse system of	<b>Audrey Prasetya</b> , <i>PhD Candidate, Australian National University</i> - Where Sunda Meets Sahul: Biogeographical patterns in the Indo-Australian Archipelago
5:34 PM					
5:35 PM					
5:35 PM					



5:39 PM		<b>Katie Turlington, <i>Phd Candidate, Australian Rivers Institute, Griffith University</i></b> - Using species calling behaviour to optimise automatic call recognisers	<b>Maree Treadwell, <i>President, Bats and Trees Society of Cairns</i></b> - Recovering a controversial endangered species: the Spectacled Flying-fox Recovery Team- a renewal of hope	annual flowering plants	from beta-diversity or bird assemblages
5:40 PM	<b>Chris Kahler, <i>Botanist / Ecologist, Ecological Interpretation</i></b> - Finches and Fire: will changed burning regimes renovate habitat for the Southern Black-throated Finch?	<b>Shannon Coppersmith, <i>PhD Student, University of Adelaide</i></b> - Assessing the conservation status of Western Australian sea snakes using acoustic telemetry and molecular analyses	<b>Courtney Melton, <i>Phd Candidate, The University of Queensland</i></b> - Resource provision and bully deterrent? The value of subcanopy vegetation structure for woodland birds		
5:44 PM					
5:45 PM	<b>Derek Johnson, <i>Research Student, University of the Sunshine Coast</i></b> - Recovery response of Koala habitat after fire				<b>Isabella Todd, <i>Honours Student, University of Wollongong</i></b> - Using species distribution modelling to develop understanding of biodiversity distribution in Antarctica for conservation management
5:49 PM					
5:50 PM					<b>Dr Mark Bonner, <i>Research Fellow, RMIT</i></b> - Those who can don't want to, those who want to can't: eco-evolutionary soil carbon protection
5:55 PM	<b>ECOSYSTEM RECOVERY AND THE FORGOTTEN ELEMENTS OF FIRE REGIMES: HOW ECOSYSTEMS RESPOND TO CHANGES IN FIRE SEASON, EXTENT, AND SEVERITY (3) - Live QA</b>	<b>REMOTE SENSING IN ECOLOGY (3) - Live QA</b>	<b>OPEN FORUM: ECOSYSTEM RESTORATION (1) - Live QA</b>	<b>OPEN FORUM: PLANT AND SOIL ECOLOGY - Live QA</b>	<b>OPEN FORUM: ECOLOGICAL MODELLING (2) - Live QA</b>

## Friday, November 26, 2021

<a href="#">Please click here</a> to visit our online networking hub.					
9:30 AM - 11:00 AM	PLENARY SESSION 5				
	KEYNOTE PRESENTATION: Ecology in Wild Places – the value of conservation research partnerships <b>Dr Katherine Moseby, <i>University of New South Wales</i></b>				
	KEYNOTE PRESENTATION: It's much more than just a climate problem: how we made our landscapes and why you need us to help save them, <b>Associate Professor Michael-Shawn Fletcher, <i>Associate Dean (Indigenous), University of Melbourne</i></b>				
11:00 AM - 11:15 AM	Morning tea (Friday)				
	<a href="#">Please click here</a> to visit our online networking hub.				
<b>CONCURRENT SESSIONS 10</b>					
	<b>VEGETATION INFORMATION SUPPORTING CLASSIFICATION AND MAPPING – ROAD TO RECOVERY (1)</b>	<b>ADVANCES IN GENOMICS FOR ECOLOGY</b>	<b>PF-FIRE: PAST FIRE FREQUENCY AND INTENSITY RECONSTRUCTION (1)</b>	<b>OPEN FORUM: CLIMATE CHANGE (2)</b>	<b>OPEN FORUM: ECOSYSTEM RESTORATION</b>
11:15 AM	<b>Dr Don Faber-Langer, <i>Senior Ecologist and Conservation Methods Coordinator Natureserve</i></b> - Perspectives on Building an Australian National Vegetation Classification using the international EcoVeg approach	<b>Dr Rahul Rane, <i>Research Scientist, CSIRO</i></b> - Advances in applied genomics	<b>Dr Simon Connor, <i>Research Fellow, Australian National University</i></b> - Have we abandoned Australia's forests to catastrophic fire?	<b>Nara Vogado, <i>Phd Candidate, James Cook University</i></b> - Effects of an experimental drought on the phenology and ecophysiology of tropical rainforest tree species	<b>Tina Parkhurst, <i>Phd candidate, Murdoch University</i></b> - Recovery of woody but not herbaceous native flora ten years post old-field restoration
11:15 AM					
11:28 AM					

11:35 AM	<b>Dr Sally O'Neill</b> , <i>TERN Ecosystem Surveillance</i> - Standardising environmental monitoring and data systems for NRM practitioners: how ecologists and service providers can benefit from TERN's protocols developed for DAWE	<i>PhD Student, The University of Melbourne</i> - Using hierarchical models to compare the sensitivity of metabarcoding and qPCR for eDNA detection	<i>University of Melbourne</i> - Fire activity in Buchan, Victoria: using ethnopictorial evidence alongside paleoecology to understand past landscapes	<i>Candidate, Macquarie University; Royal Botanic Gardens Sydney</i> - How does climate shape flowering periods across Australian plant communities?	<i>Irobe University</i> - How long does it take for revegetation plantings to become suitable for different native birds?
11:41 AM		<b>Gabe O'Reilly</b> - Genetic methods for detection of recent population subdivisions	<b>Mark Constantine</b> , <i>PhD Student, UNSW School of Biological, Earth and Environmental Science</i> - Comparison of charcoal extraction methods on an 800-year record from Lake Werri Berri, NSW	<b>Elise Verhoeven</b> , <i>PhD Candidate, The University of Sydney</i> - Characterising the spatio-temporal dynamics of extreme drought and rain events in Australia	<b>Eddy Cannella</b> , <i>Principal Zoologist, Biostat Pty Ltd</i> - Mine rehabilitation - a renewal of sorts for fauna
11:48 AM	<b>Professor John Hunter</b> , <i>University of New England</i> - Poplar Box Woodlands: an assessment of a threatened ecological community within the IVC framework	<b>Dr Erin Hahn</b> , <i>Postdoctoral Fellow, CSIRO</i> - Fixed in time: characterising historical genomes from formalin-preserved museum specimens	<b>Caitlin O'Shea</b> , <i>Masters Student Researcher, University of Melbourne</i> - Did European Invasion add fuel to the fire? Interrogating historical fire management through subfossil record	<b>Dr John Morgan</b> , <i>Lecturer In Plant Ecology, La Trobe University</i> - Establishing native plant populations beyond their natural range is hard!	<b>Dr Megan Good</b> , <i>Post Doctoral Research Fellow University of Melbourne</i> - Targeted monitoring to support restoration: a state-transition framework
11:54 AM					
12:01 PM	<b>Dr Donna Lewis</b> , <i>Senior Botanist, Dept. Environment, Parks and Water Security</i> - Developing a vegetation typology for the Northern Territory using numerical analyses of plot-based data	<b>A/Prof Alison Shapcott</b> , <i>University Sunshine Coast</i> - Molecular Ecology approaches to enhance our understanding of ecosystem renewal	<b>Matthew Adeleye</b> , <i>PhD Student, Australian National University</i> - The role of Indigenous cultural burning in stabilizing past fire regimes—new insights from Bass Strait	<b>Dr Jamie Cleverly</b> , <i>Snr Research Fellow, TERN and the University of Technology Sydney</i> - High temperature versus high vapour pressure deficit stress in <i>Acacia aptaneura</i> during drought-induced mortality	<b>Andrew Denham</b> , <i>Research Scientist NSW Department of Planning, Industry and Environment</i> - Importance of tree density on understory diversity and weed abundance in restored grassy box woodland
12:07 PM					
12:13 PM	<b>Dr Sarah Luxton</b> , <i>Terrestrial Ecologist, Department of Environment, Parks and Water Security</i> - Comparison of intuitive and numerical classification: a case study from the Northern Territory	<b>Kristen Fernandes</b> , <i>PhD Candidate, Curtin University</i> - Environmental DNA metabarcoding reveals the threat of urbanisation to native bees in a biodiversity hotspot	<b>Harriet Magee</b> , <i>PhD Student, University of Melbourne</i> - Temperate forest estates and big burn histories: fuel and fire reconstruction on Gunaikurnai Country, Victoria	<b>Charlotte Page</b> , <i>PhD Candidate, UNSW</i> - Characteristics and consequences of a coral disease outbreak at Norfolk Island, South Pacific	<b>Brittany Elliott</b> , <i>PhD Candidate, University of The Sunshine Coast</i> - Insect indicator species for monitoring and prioritising restoration actions
12:20 PM					
12:26 PM	<b>Rachel McIntosh</b> , <i>PhD Student, La Trobe University</i> - Identifying floristic vegetation patterns along a climatic gradient to evaluate fire management categories	<b>Dr Caroline Chong</b> , <i>Threatened Species Botanist, Northern Territory Government</i> - Advancing genomics for threatened plant species management in the Northern Territory	<b>Dr Christopher Wurster</b> , <i>Research Fellow, James Cook University</i> - Natural and human impacts on north Australian savanna fire regimes over the Holocene	<b>Professor David Watson</b> , <i>Charles Sturt University</i> - Climate change disrupts ecological interactions in mysterious ways: using ecological generalists to forecast community-wide effects	<b>Thomas Munro</b> , <i>Charles Sturt University</i> - Effects of seed enhancement technologies on seedling performance in water-limited soils
12:33 PM					
12:33 PM					
12:38 PM					<b>Ebony Cowan</b> , <i>PhD Candidate, Murdoch University</i> - Soil seedbank development in a 23-year restoration chronosequence following smoke treatment
12:39 PM	<b>Dr Megan McNellie</b> , <i>Senior Scientist, NSW Department of Planning, Industry and Environment</i> - Species abundance distributions should underpin ordinal cover-abundance transformations		<b>Anthony Romano</b> , <i>Research Assistant, University of Melbourne</i> - Bringing Back Bolin: Reconstructing the past environment of Naarm-Melbourne	<b>Dr John Dwyer</b> , <i>Senior Lecturer, The University of Queensland</i> - Functional traits explain rainforest seedling responses to experimental drought	
12:45 PM					
12:46 PM					
12:52 PM	<b>Meena Sivatorwe Sritharan</b> , <i>Australian National University</i> - Plant rarity is common but there are many ways to be rare				

1:10 PM	VEGETATION INFORMATION SUPPORTING CLASSIFICATION AND MAPPING – ROAD TO RECOVERY (1) - Live QA	ADVANCES IN GENOMICS FOR ECOLOGY - Live QA	PF-FIRE: PAST FIRE FREQUENCY AND INTENSITY RECONSTRUCTION (1) - Live QA	OPEN FORUM: CLIMATE CHANGE (2) - Live QA	OPEN FORUM: ECOSYSTEM RESTORATION - Live QA
1:25 PM - 2:15 PM	Lunch (Friday)				
	Please <a href="#">click here</a> to visit our online networking hub.				
<b>CONCURRENT SESSIONS 11</b>					
	VEGETATION INFORMATION SUPPORTING CLASSIFICATION AND MAPPING – ROAD TO RECOVERY (2)	OPEN FORUM: PRACTICAL USE OF GENOMICS FOR ECOLOGY	PF-FIRE: PAST FIRE FREQUENCY AND INTENSITY RECONSTRUCTION (2)	OPEN FORUM: CLIMATE CHANGE (3)	OPEN FORUM: DECISION MAKING TOOLS AND SCIENCE COMMUNICATION
2:15 PM	<b>Dr Eda Addicott</b> , <i>Principal Botanist, Queensland Herbarium, Australian Tropical Herbarium</i> - How do the Eucalyptus tetrodonta woodlands fit into global vegetation?	<b>Owen Holland</b> , <i>Phd Candidate, Deakin University</i> - Ocean warming threatens key biotic interactions supporting a dominant herbivore in a climate change hotspot	<b>A/Prof Michael-Shawn Fletcher</b> , <i>Abiogeographer, University of Melbourne</i> - Revealing the incredible workload required to keep Country open in northwest Lutruwita (Tasmania)	<b>Hannah Carle</b> - Early signs of decline in the Australian tropical carbon sink?	<b>Dr Dana Bergstrom</b> , <i>Terrestrial Ecologist Australian Antarctic Division</i> - Facing ecosystem collapse using the 3As (Awareness, Anticipation and Action) Pathway of conservation decision science
2:20 PM	<b>Simon Casey</b> , <i>Honours Student, Deakin University</i> - Mapping and assessing Phytophthora dieback in the eastern Otways	<b>Zachary Clark</b> , <i>Student Deakin University</i> - Investigating the diet of the white shark ( <i>Carcharodon carcharias</i> ) using DNA metabarcoding approaches	<b>Dr William Henriquez</b> , <i>Post Doctoral Research Fellow, University of Melbourne</i> - Gulidjan Country: how have the western plains of Victoria changed since the British invasion?	<b>Anu Singh</b> , <i>The University of Melbourne</i> - The role of climatic variability on eucalypt regeneration in southeast Australia	<b>Jaana Dielenberg</b> , <i>Science Communication and Engagement Manager, Threatened Species Recovery Hub</i> - 7000 news stories later, 10 things I have learnt about generating media for environmental research
2:25 PM	<b>Alys Young</b> , <i>Phd Candidate, Deakin University</i> - Co-developing conservation knowledge and plans on the Tiwi Islands, NT				
2:28 PM					
2:30 PM	<b>Katherine Zdunic</b> , <i>Program Leader Remote Sensing &amp; Spatial Analysis, Western Australia Department of Biodiversity, Conservation and Attractions</i> - Linking drones to satellites: measuring and monitoring vegetation attributes	<b>James Dorey</b> , <i>Postgraduate Associate Yale University</i> - Holocene population expansion of a tropical bee coincides with Fijian colonization rather than climate change	<b>Professor Simon Haberle</b> , <i>Australian National University</i> - A palaeoecological perspective on fire dynamics in Australian savannas	<b>Lucile Leveque</b> , <i>Phd Candidate, University of Tasmania</i> - Will the surviving Tasmanian native hen resist global changes?	<b>Professor Jenny Davis</b> , <i>RIEL, Charles Darwin University</i> - The conservation challenge of protecting recently discovered subterranean wetlands and stygofauna in northern Australia
2:41 PM		<b>Dr Rebecca Jordan</b> , <i>Research Scientist CSIRO</i> - Can trees keep pace with climate change? Investigating genomic change and adaptability in <i>Eucalyptus pauciflora</i>	<b>Lucinda Duxbury</b> , <i>The University of Adelaide</i> - 5,000 years of fire and ecosystem change on Kangaroo Island, South Australia	<b>Sarah Taig</b> , <i>Student Deakin University</i> - Effects of temperature on aquatic insect growth, survival and infectious disease	<b>Dr James Brazill-Boast</b> , <i>Principal Ecologist NSW Biodiversity Conservation Trust</i> - Evaluating biodiversity impact of a private land conservation program
2:43 PM	<b>Andrew Jansen</b> , <i>Freshwater Ecologist, Supervising Scientist</i> - Principles using deep learning to automate savanna tree species identification				
2:54 PM		<b>Kendrika Gaur</b> , <i>Phd Candidate, Deakin University</i> - Testing the efficiency of eDNA compared with video-trap data: Terrestrial wildlife in the Victorian Mallee	<b>Margot Schneider</b> , <i>Australian National University</i> - Past fire shaping future fuel: Influence of fire regimes on <i>Eucalyptus pilularis</i> ' leaf nutrient content	<b>Jollene Reich</b> , <i>Phd Student, University of Canberra</i> - How do changes in annual mean temperature and annual temperature variability affect species' distributions?	<b>Anne Eichholtzer</b> , <i>Phd Student, Deakin University</i> - From ecological research to public engagement: the multiple values of Citizen Science
2:56 PM	<b>Ian Cowie</b> , <i>Chief Botanist, DEPWS</i> - Patterns of endemism in the flora of the Northern Territory and implications for management				
3:07 PM		<b>Alana Burton</b> - The Application of Environmental DNA for Detecting the Green and Golden Bell Frog ( <i>Litoria aurea</i> )		<b>Lorenzo Galletta</b> , <i>Phd Student, Deakin University</i> - The influence of parental pre-natal exposure to heat calls on thermal tolerance of their offspring	<b>Dr Samantha Travers</b> , <i>NSW Department of Planning Industry and Environment</i> - Which experts and how many? A quantitative comparison of how experts identify an ecological community
3:09 PM	<b>Diane Napier</b> , <i>Principal Terrestrial Ecologist, Dept. Environment Parks and Water Security</i> - What site data tells us about the edaphic preferences of <i>Terminalia ferdinandiana</i> (Kakadu plum)				
3:12 PM					

3:17 PM		<b>Morgan Ellis, PhD Candidate, Deakin University</b> - Use of eDNA in Detecting of Two Invasive Species <sup>517</sup>		<b>Celina Burkholz, PhD Student, UWA</b> - Future-proofing declining kelp forests with Green Gravel	<b>Jessica Tam, Honours Student, University of New South Wales</b> - Biases in mammalian research: How science can threaten species with extinction
3:20 PM			<b>Sarah Cooley, PhD Candidate, University of Melbourne</b> - Response, resilience and recovery: An endangered fire-sensitive endemic conifer and its relationship with fire		
3:22 PM	<b>Louis Elliott, Weed Scientist, NT Department of Environment, Parks and Water Security</b> - Extirpation: improving representation of species distribution point data using a status grid based methodology	<b>Dr Erin Weserhuis, Terrestrial Ecologist, GHD</b> - Using genomic DNA and hormone metabolites in guano to monitor population dynamics of <i>Rhinonictis aurantia</i>		<b>Emma Sumner, Deakin University</b> - Heat, frost, drought: How will Australian alpine plants cope with future climate extremes?	<b>Jayden Engent, PhD Student, James Cook University</b> - 20 Million Trees but few benefits to threatened species
3:33 PM			<b>Nicholas Lloyd, Student, Charles Sturt University</b> - What makes peatlands burn: a landscape-scale assessment of fire history in peatlands		
3:35 PM	<b>Marion Howard, PhD Student, University of The Sunshine Coast</b> - Threatened Rainforest Communities of Central Queensland, are they a priority for Conservation?	<b>Ellyn Erlania, PhD Candidate, Deakin University</b> - Environmental DNA for approximating spatial sequestration of macroalgal carbon in marine sediments		<b>Julian Radford-Smith, PhD Candidate, The University of Queensland</b> - How will Australia's subtropical rainforests respond to climate change?	<b>Dr David Nipperess, Senior Scientist, NSW Department of Planning, Industry &amp; Environment</b> - Conservation prioritisation to secure the evolutionary heritage of New South Wales
3:46 PM			<b>Dr Diana Kuchinke, Sessional Lecturer, Federation University</b> - Old rules for fire research no longer apply		
3:48 PM		<b>Jennifer Evans, PhD Candidate, Australian National University</b> - Testing explanations for population decline in an iconic Australian bird using novel application of genomics		<b>Kristoffer Wild, PhD Student, University of Canberra</b> - Differential dispersal and fitness-related consequences of sex-reversal in the central bearded dragon	
3:50 PM	<b>VEGETATION INFORMATION SUPPORTING CLASSIFICATION AND MAPPING – ROAD TO RECOVERY - Live QA</b>				
3:53 PM		<b>Dr Tom Mooney, Supervising Scientist</b> - Genomic technologies to future-proof the long-term ecological monitoring of the rehabilitated Ranger Uranium Mine			
3:58 PM		<b>Veronique Paris, PhD Student, The University of Melbourne</b> - Population genomics informs urban ecology of a native Australian mosquito involved in disease transmission	<b>PF-FIRE: PAST FIRE FREQUENCY AND INTENSITY RECONSTRUCTION (2) - Live QA</b>	<b>OPEN FORUM: CLIMATE CHANGE (3) - Live QA</b>	<b>OPEN FORUM: DECISION MAKING TOOLS AND SCIENCE COMMUNICATION - Live QA</b>
4:00 PM		<b>OPEN FORUM: PRACTICAL USE OF GENOMICS FOR ECOLOGY - Live QA</b>			
4:15 PM	Afternoon tea (Friday)				
	<b>PLENARY SESSION SIX</b>				
	PLENARY SESSION 6: Closing Plenary				
4:30 PM - 5:30 PM	<p style="text-align: center;"><b>Session Chair: Alan Anderson</b></p> <p style="text-align: center;"><b>ESA President's Address</b></p> <p style="text-align: center;"><b>ESA Award Presentations</b></p> <p style="text-align: center;">2020 Fundamental Ecology Award, <b>Isaac Towers</b></p> <p style="text-align: center;">2020 Applied Forestry Scholarship presentation: The flammability of rainforest plants: a comparison of lifeforms from the Australian Wet Tropics, <b>Ebony Potts, Centre for Tropical Environmental and Sustainability Studies (TESS) and College of Science and Engineering, Cairns</b></p> <p style="text-align: center;">Presentation of Prizes and Awards</p>				

POSTERS AT ESA2021 (Barbara Rice Memorial Poster Session - Monday 22 November

# = Poster AND Speed Talk

	Poster title	First Name	Last Name	Organization
#	A survey of the arts in conservation communication strategy	Anthony	Albrecht	Charles Darwin University
	Does seed mass modulate species' responses to environmental variation and plant-plant interactions?	Isis	Arend da Silva	University of Queensland
	Neighbourhood diversity enhances plant survival in a restored ex-agricultural ecosystem	Joe	Atkinson	UNSW Sydney
	Coral demography changes during mass bleaching events	Kevin	Bairos-novak	James Cook University
	Genomic diversity and divergence among populations of the invasive woody shrub, <i>Leptospermum laevigatum</i> (Gaertn.) F.Muell.	Surendra	Bam	Department Of Ecology, Environment And Evolution, La Trobe University
	Using existing knowledge to map tiger corridors in Terai Arc Landscape, Nepal	Tek Raj	Bhatt	Griffith University
#	What the heck is a <i>Caltha</i> Herbland? And why should we care?	Alex	Blackburn-Smith	La Trobe University
#	Increased Genetic Diversity via Gene Flow Provides Hope for an Endangered Wattle Facing Extinction	Colette	Blyth	University of Adelaide
#	Beyond climate change: How does disturbance affect plant composition and shrub dynamics in alpine grasslands?	Montee	Bonnefin	La Trobe University
#	Temporal changes in soil microbial community compositions of a threatened ecological community post disturbance.	Aaron	Brace	Edith Cowan University
	Hatchery-imposed selection does not impact the genetic diversity of farmed blue mussels	Georgina	Bramwell	Deakin University
#	The Application of Environmental DNA for Detecting the Green and Golden Bell Frog ( <i>Litoria aurea</i> )	Alana	Burton	
#	Hannah Calich - Investigating megafauna movement and behaviour with Statistical Physics methods: A primer for Ecologists	Hannah	Calich	University of Western Australia
	Complementarity based prioritisation of invasive willow control across eastern Victoria	Stephanie	Carter	Monash University
#	Simon Casey - Mapping and assessing <i>Phytophthora dieback</i> in the eastern Otways	Simon	Casey	Deakin University
	Assessing plant functional diversity under varying climatic and burn regimes in the Anglesea heathy woodlands	Sam	Chalmers	Deakin University
	Monitoring Ecological Population Trends in the High Arctic: Computer Vision for Sustainability	Thomas	Chen	Academy for Mathematics, Science, and Engineering
	Thomas Chen - A Computer Vision Framework for Urban Ecology Conservation	Thomas	Chen	Academy for Mathematics, Science, and Engineering
	Invertivorous fishes and their foraging preferences can influence epifaunal productivity in a tropical fringing reef	Yi-Yang (Alex)	Chen	The Australian National University
#	Shannon Coppersmith - Assessing the conservation status of Western Australian sea snakes using acoustic telemetry and molecular analyses	Shannon	Coppersmith	University of Adelaide
#	Urban connectivity: Using expert elicitation to inform ecological connectivity in the ACT	Steph	Courtney Jones	ACT Government / Australian National University
#	Does burning reduce fuel loads and fire risk? Or simply create a grass fire cycle?	Merinda	Day-Smith	La Trobe University

	Escalator to extinction: predicted community response to an uphill elevational shift in the Wet Tropics	Alejandro	De La Fuente	James Cook University
#	Psyllaephagus, an important but problematic genus of parasitoid wasps	Alana	Delaine	The University of Adelaide
	Not-so-forbidden fruit: conservation potential of toxic Pimelea microcephala fruits for native arid zone birds	Jenna	Draper	The University of Adelaide
#	5,000 years of fire and ecosystem change on Kangaroo Island, South Australia	Lucinda	Duxbury	The University of Adelaide
	Changing ways: how altered disturbance regimes affect the susceptibility of natural ecosystems to invasion	Rosa	Earle	Unsw
#	Poster and speed talk) - IEK - Isabel Ely - Conservation of the Long-necked turtle adopting a Two Ways approach in the Finniss River floodplains	Isabel	Ely	REIL/CDU
#	"I never cared about the trees before": Empowering landholders to undertake ecological fire management post-2019/20	Hannah	Etchells	Nature Conservation Council NSW
#	Testing explanations for population decline in an iconic Australian bird using novel application of genomics	Jennifer	Evans	Australian National University
	Soil carbon accounting in the world's most carbon-dense forests, the Victorian Central Highlands	Atalaya	Ferrari	Royal Melbourne Institute Of Technology
	Assessing the impact of Phantom Decoys on honeybees, Apis mellifera	Caitlyn	Forster	The University Of Sydney
#	Aligning decision support with target setting: the case of Tasmania's contested forests	Carley	Fuller	University of Tasmania
#	Optimising digital data collection tools for ecological monitoring programs	Cameron	Gallagher	ACT Parks And Conservation
	Habitat fragmentation and corridors: a brief review and a new citizen science project	Ronda	Green	Environmental Futures Research Institute, Griffith University
#	Mapping Queensland's terrestrial vegetation condition, the Saptial BioCondition modelling framework.	Leo	Hardtke	Department of Environment and Science, QLD
#	Passive acoustic monitoring of fish choruses along the Australian southern continental shelf	Lauren	Hawkins	Centre For Marine Science & Technology, Curtin University
#	Where's the moss? Mapping urban moss to understand the challenges of city life for plants	Alison	Haynes	University of Wollongong
#	Passive telemetry reveals resource-driven shifts in the movement of a small, highly mobile granivorous finch	Brittany	Hayward-Brown	Charles Darwin University, ResearchResearch Institute of Environment and Liveli Institute Of Environment And Livelihoods
	Alpine shrub morphology varies with altitude: what are the implications under climate change?	Iris	Hickman	La Trobe University
	The effects of vessel traffic on pelagic fauna in marine protected areas	Lincoln	Hood	University of Western Australia
#	The effect of age on the physiology and behaviour of the slime mould, Physarum polycephalum	Arisa	Hosokawa	University of Sydney
#	Assessing the usefulness of expert knowledge and empirical data in managing bushfire for biodiversity	Jenny Shih-Wen	Huang	The University of Melbourne
#	Increased temperature range reduces herbivory by an urban leaf beetle	Daniel	Jin	The University of Sydney
#	Recovery response of Koala habitat after fire	Derek	Johnson	University of the Sunshine Coast

#	Mammal response to increased wildfire frequency and severity in montane forests of Victoria	Jeremy	Johnson	University of Melbourne
#	Impacts of prescribed burning to the diversity of fungi and plants in a heathy woodland	Mitchell	Johnston	Deakin University
#	Drivers of propagule bank and vegetation community composition in urban forest fragments of south-east Queensland	Jaiden	Johnston-Bates	Griffith University
#	Finches and Fire: will changed burning regimes renovate habitat for the Southern Black-throated Finch?	Chris	Kahler	Ecological Interpretation
#	Influence of Urban Fabric on Microclimate in Sydney	Thilini	Kaluarachchi	Western Sydney University
#	Empirical dynamic modelling of bat-mosquito relationships at a California preserve	James	Kelleher	University Of Melbourne
#	Effects of native soil microbial inoculation on plants and soils from a threatened Brigalow community	Kit	King	The University Of New South Wales
#	Koala refugia on the edge of hydration	Ivan	Kotzur	Hawkesbury Institute For Environment
#	Host genomic variation and beak and feather disease virus infection in crimson rosellas ( <i>Platycercus elegans</i> )	Candice	Lachenicht	Deakin University
#	Untangling liana responses to elevated CO <sub>2</sub>	Bree	Laugier	
#	Counting wiliji on country: Indigenous led monitoring, camera traps and unmarked models	Tyrone	Lavery	The Australian National University
#	Engineering soil microbiome to increase plant productivity using a root exudate	Hongwei	Liu	Western Sydney University
#	Evidence for the plant recruitment of beneficial microbes to suppress soil-borne pathogens	Hongwei	Liu	Western Sydney University
#	Reduced model complexity for tracking savanna tree biomass with terrestrial LiDAR	Linda	Luck	Charles Darwin University
#	Using Conservation Detection Dogs in the battle against invasive aquatic weeds	Tracy	Lyten	Skylos Ecology Pty Ltd
#	Warming with temperature oscillation changing the thermal responses of pea aphids and their parasitoids	Mukta	Mala	
#	Martino Malerba - Effects of farm dams on frog biodiversity and carbon cycles	Martino	Malerba	Deakin University
#	De-colonising science through co-teaching consilience	Leanda	Mason	Curtin University
#	THE ROLE OF HOST-ASSOCIATED MICROBIOMES IN PHOTOSYNTHETIC EFFICIENCY WITHIN THE HABITAT FORMING MACROALGAE, <i>HORMOSIRA BANKSII</i>	Alexander	Mcgrath	University Of Sydney
#	Ecological knowledge essential to management of a threatened plant community with an uncertain future	Kristin	Monie	Federation University Australia
#	Post-fire response of Queensland's subtropical rainforests following the catastrophic 2018-2019 fire	Matthew	Mooney	University of the Sunshine Coast
#	Street trees relative to native trees: taxonomically rich, but functionally similar	Sophie	Moore	Macquarie University
#	Disappearing alpine grasslands: a multi-decadal study of vegetation dynamics on the Bogong High Plains	Suzanne	Moss	La Trobe University
#	Going with the flow: Using aerial drones to analyse fine-scale distributions and behaviours of rays in intertidal sandflats	Jaelen	Myers	James Cook University
#	Community structure of gorgonians is influenced by depth gradient and current regime in coral reefs.	Marta	Panero	James Cook University

#	Population genomics informs urban ecology of a native Australian mosquito involved in disease transmission	Veronique	Paris	The University of Melbourne
#	Pleistocene fossil sites and their role in conservation public outreach: A World Heritage Area perspective.	Evan	Parker	The University of Adelaide
	Weaponising wildlife: Training native predators to hunt invasive alien prey	Finn	Parker	The University Of Sydney
	Ant Baiting by Autonomous Drone	Magen	Pettit	CSIRO
#	Understanding forage availability for managing total grazing pressure in endangered Buloke ( <i>Allocasuarina luehmannii</i> ) Woodlands	Linda	Riquelme	University of Melbourne
	Bringing the yams back: collaboration with a First Nations Women's Knowledge Group in Central Victoria	Nina	Roberts	La Trobe University
	Hollows, termites and long-term fire regimes in northern Australian tropical savannas	Ellen	Rochelmeyer	Charles Darwin University
	Evolutionary drivers of Austral soil invertebrate distribution	Giles	Ross	Hawkesbury Institute For The Environment
	Understanding ecological extremes: mechanism of resilience and recovery	Joelan	Sawyer	Anne Clements and Associates Environmental and Botanical Consultants
#	Different kinds of herbivores and plant invasion: their impact on plant diversity in grassy woodlands	Corinne	Schlienzauer	Queensland University of Technology
	Investigation into potential drivers on the historical demography of endemic Fijian Homalictus ( <i>Apoidea: Halictidae</i> )	Patricia	Slattery	Flinders University
#	Mammal community composition in a fire-prone landscape	Amy	Smith	
#	Impacts of myrtle rust ( <i>Austropuccinia psidii</i> ) on seedling diversity in a wet sclerophyll forest	Kristy	Stevenson	University of Queensland
	Ground Control: soil microbe-plant associations improve resistance and resilience to climate change	Jana	Stewart	Unsw
	Assessing the dietary impacts of the translocation of hare-wallabies to a novel island ecosystem.	Rachyl-Anne	Stover	Edith Cowan University
#	Practical considerations for efficient acoustic monitoring	Daniella	Teixeira	Qut
	Feral cat eradication on large islands: estimating surveillance effort required to detect migrant individuals	Meryl	Theng	University of Adelaide
	Bringing diversity to monocultures: are retained habitat features valuable for birds within plantations?	Eliza	Thompson	The University Of Melbourne
#	Using species distribution modelling to develop understanding of biodiversity distribution in Antarctica for conservation management	Isabella	Todd	University of Wollongong
#	Recovering a controversial endangered species: the Spectacled Flying-fox Recovery Team- a renewal of hope	Maree	Treadwell	Bats And Trees Society Of Cairns
	Daily activity of the northern quoll, feral cat and dingo in a tropical savanna	Gavin	Trewella	Charles Darwin University
	A Global Threat Index for Marine Megafauna (TIMM)	Michelle	Van Compernelle	University of Western Australia
	Dry and warm: a novel open-top chamber for climate change research	Jeronimo	Vazquez-Ramirez	Deakin University
	Alpine shrubs as ecosystem engineers: Facilitating the growth of nearby plants?	Susanna	Venn	Deakin University
#	Systematic review of indicators used in terrestrial Red List of Ecosystem Assessments	Clare	Vernon	Deakin University
	Population structure of <i>Petrogale penicillata</i> following Australia's Black Summer	Melissa	von Moger	Australian National University



#	Bouncing back from habitat modification - can threatened frogs recover?	Samantha	Wallace	The University of Newcastle
#	PCLake+: Modelling stable states, critical nutrient loading, and weed harvesting in a man-made Australian Lake	Jake	Wallace	Federation University
	Termites in restoration - the forgotten insect?	Baptiste	Wijas	University of New South Wales
	Estimating the energy expenditure of lizards using tri-axial accelerometers: a validation with doubly labelled water	Kristoffer	Wild	University of Canberra
	Differential dispersal and fitness-related consequences of sex-reversal in the central bearded dragon	Kristoffer	Wild	University of Canberra
#	Understanding bushfire impacts on plant-pollinator interactions at the interface between agricultural and native landscapes.	Andrew	Williamson	Western Sydney University
	Right Plant Right Way	Nathan	Wong	Djandak
	Commonalities and differences between ecosystem risk assessment and ecosystem accounting	Hui	Xiao	Deakin University
#	A narrow escape: Enemy release explains success in only some invasive plants.	Zoe	Xirocostas	UNSW Sydney
#	Co-developing conservation knowledge and plans on the Tiwi Islands, NT	Alys	Young	Deakin University
	Factors that affect the occurrence of the Enemy Release Hypothesis	Karen	Zeng	UNSW Sydney