



ESA2020: Understanding Ecological Extremes – Mechanisms of Resilience and Recovery

Conference Program Please note that this program is subject to change without notice at anytime. Times are AEDT (Sydney / Melbourne / Canberra time zone)

Monday 30 November 2020

9:00 – 10:00	PLENARY SESSION ONE Chair: Bek Christensen			
	Conference Opening & Acknowledgement of Country President's Address			
	Indigenous Keynote presentation: Vanessa Cavanagh Aboriginal women and cultural burning, as a way of carin	ng for country		
10:00 – 12:00	CONCURRENT SESSIONS 1			
	SYMPOSIUM: Temperature Extremes: impacts, resilience and mitigation (Thermal Tolerance) CHAIR: Alicia Cook	SYMPOSIUM: Indigenous Ecological Knowledge 10th Anniversary Symposium CHAIR: Gerry Turpin	SYMPOSIUM: Soil microbial responses to climate extremes: mechanisms, patterns, interactions CHAIR: Christina Birnbaum	OPEN FORUM: Urban Ecology (1) CHAIR: Sam Lloyd
	Associate Professor Andy Leigh, University of Technology Sydney What does thermal tolerance tell us about life and death?	Dr Georgia Ward-Fear, Macquarie University Sharper eyes see shyer lizards: Collaboration with indigenous peoples alters the outcome of conservation research	Hans Ammitzboll, PhD Candidate, University of Tasmania Soil microbial succession after fire in logged Tasmanian wet eucalypt forests	Katherine Berthon, PhD Candidate, ICONScience, RMIT University Plant-Insect Dating in the City: how design context influences the way pollinators interact with plants
	Dr Samuel Andrew, Postdoc, CSIRO Modelling the climate limits of plant functional trait strategies	Bernadette Duncan, Kamilaroi Bridging the gaps between traditional/western science to support Aboriginal women's health, wellbeing, and empowerment	SPEED TALK: Joshua Vido, PhD Student, La Trobe University The effect of fire intensity and soil moisture on bacterial secondary succession in soil mesocosms SPEED TALK: Natalie Hejl, PhD Candidate, Macquarie University	Manuel Lequerica, Doctoral Candidate, The University of Sydney Diversity and abundance of urban hoverflies is associated with local–rather than landscape– scale attributes

		Investigating the resilience of upland swamp communities to extreme events with environmental DNA	
Dr Verónica Briceño Rodríguez, Postdoctoral Fellow, ANU Pushing against thermal limits: Do alpine, desert and temperate species differ in thermal tolerance breadth?	Patrick Cooke, Student, Macquarie University To disperse or not to disperse? Multidisciplinary evidence of Aboriginal dispersal of Bunya Pines connections	SPEED TALK: Dr Adam Frew, Lecturer, University of Southern Queensland The effects of elevated CO2 on plants and the arbuscular mycorrhizal symbiosis Dr Anna Hopkins, Senior Lecturer, Edith Cowan University Soil fungal responses to the stacked disturbances of drought and wildfire in a Mediterranean-type forest	Mahmuda Sharmin, PhD Candidate, Western Sydney University How do leaf and canopy traits relate to subcanopy air temperature of urban tree species?
Anthea Challis, PhD Student, Western Sydney University A cool growth environment enhances photosynthetic heatwave resistance and resilience in cool-wet climate region trees	Bridget Campbell, PhD Candidate, Macquarie University Wanaka Wan'kurra? Biocultural investigation of critical weight range mammal resilience in north east Arnhem Land	SPEED TALK: Frederick Dadzie, Student, UNSW, Sydney Native microorganisms improve seedling emergence of Acacia inaequilatera but not Triodia epactia during dryland restoration	Ehlana Davidson, School of Biological Sciences, The University of Queensland Life is a highway: Predicting road deaths in urban ringtail possums (Pseudocheirus peregrinus)
Dr Pieter Arnold, Postdoctoral Research Fellow, The Australian National University Shapes of thermal plasticity vary among trait types in an alpine plant	SPEED TALK Teagan Goolmeer, University of Melbourne Improving the protection and recovery of culturally significant species	Dr Miriam Munoz-Rojas, ARC DECRA Research Fellow UNSW Sydney Global change impacts on soil microbial diversity and function: implications for soil and ecosystem restoration	Jacinta Humphrey, PhD Candidate, La Trobe University Housing or habitat: What drives patterns of urban bird diversity?
Dr Onoriode Coast, Senior Fellow University of Greenwich Acclimation to warming increases the thermal limits of leaf photosynthesis among Australian wheat lines	11:10-11:45 LIVE DISCUSSION: Indigenous	Dr Eleonora Egidi, Postdoctoral Research Fellow Western Sydney University Resistance and resilience of managed and unmanaged soil bacterial communities to pulse disturbances	Dr Holly Kirk, RMIT University (presented by Kirsten Parris) Caring for wild commuters: applying ecological connectivity in urban planning SPEED TALK: Dr Elodie Camprasse, Deakin University Using wildlife incident reports to inform biodiversity sensitive urban design in Victoria
Philippa Alvarez, Student, University of Technology Sydney The Hitchhiker's Guide to Post-Heatwave Seed Germination: Don't Panic! SPEED TALK: Arun Singh Ramesh, PhD Student, James Cook University Leaf thermoregulation among congeners across elevation gradients from wet tropical rainforests of Far North Queensland	Ecological Knowledge 10 th Anniversary Symposium	SPEED TALK: Justin Chan, UNSW Complex environments alter competitive dynamics in fungi Dr Christina Birnbaum, Research Fellow, Deakin University Above- and belowground impacts of an invasive species vary across landscapes	SPEED TALK: Emma Henderson, Griffith University The plant communities of urban riparian areas SPEED TALK: Claire Kenefick, Msc (Ecosystem Science) Student, University of Melbourne Give them a shrubbery! Using Australian shrubs in naturalistic plantings to green our cities

	SPEED TALK: Dr Manuel Esperon, Postdoctoral Research Fellow, Western Sydney University Vulnerability of urban trees to heatwaves				
	11:45-12:00 LIVE QA with all presenters		11:45-12:00 LIVE QA with all presenters	11:45-12:00 LIVE QA with all presenters	
12:00 – 14:00	Take a break (Monday) Virtual Exhibition open 12:00-14:00				
12:15 – 13:45	Post Graduate Session Facilitated by Adrienne Nicotra ar	nd Susanna Venn			
12:30 – 13:30	Networking – Diversity at ESA Facilitated by Ayesha Tullo	och and James Barker			
12:30 – 13:30	Lunchtime Discussion 1: Teaching ecology in unusual tim	es Facilitated by Jodi Price and Dieter Hochuli			
14:00 – 15:30	CONCURRENT SESSIONS 2				
	SYMPOSIUM: Temperature Extremes: impacts, resilience and mitigation (Thermal Extremes) CHAIR: Adrienne Nicotra	SYMPOSIUM: Managing a cultural landscape and building resilience in a new world reality CHAIR: Noel Preece	OPEN FORUM: Speed Talks (1) CHAIR: Joshua Buru	OPEN FORUM: Global Ecology CHAIR: Bek Christensen	
	Elizabeth Morison, University of Wollongong Understorey shrub has improved resilience but suffers under compounded extreme heat and drought in summer	Dr Emma Woodward, Research Scientist, CSIRO Why is Indigenous knowledge important to Indigenous people? Learnings from Our Knowledge Our Way Guidelines	SPEED TALK: Lachlan Wilmott, Threatened Species Officer, Department of Planning, Industry and Environment Koala home range size and chlamydia disease expression correlated with soil fertility SPEED TALK: Professor Nigel Andrew, Professor of Entomology, University of New England Publication trends in Austral Ecology SPEED TALK: Alexandra Catling, PhD Candidate, University of Queensland Disentangling the effects of water availability and biotic interactions on annual plant performance	Professor Sally A. Power, Professor, Western Sydney University Understanding grassland species' responses to climate extremes: the PACE project	
	Dr Ganesha Liyanage, Rainforest Conservation Scientist, Australin Plantbank Effect of increased temperature and drought conditions on early seedling stages of Geijera parviflora	SPEED TALK: Simon Tedder, Dept. Planning Industry & Environment Poetry in First Languages is saving the glossy black-cockatoo Michelle McKemey, Principal, Melaleuca Enterprises Environmental Consultancy Services and Aunty Lesley Patterson, Banbai Elder and Ranger	SPEED TALK: Suman Acharya, PhD Student, La Trobe University Dissolved organic matter dynamics and ecosystem metabolism in a regulated and unregulated river of Australia SPEED TALK: Dr Alfonsina Arriaga Jiménez, Postdoctoral Fellow, University of New England	Dr Daniel Falster, ARC Future Fellow, University of New South Wales Global bimodality of forest heights: natural or man-made phenomenon?	

	Developing cross-cultural knowledge ('right way' science) to support Indigenous cultural fire management	Native dung beetle species richness and composition along an elevation gradient, ecosystem functioning and services SPEED TALK: Bryony Palmer, PhD Student, University of Western Australia Investigations into the role of Australian marsupials as seed dispersers	
Lena Alice Schmidt, Hawkesbury Institute for the Environment, Western Sydney University Warming alters floral resource provisioning in a critically endangered woodland community	Robyn Boldy, PhD Candidate, The University of Queensland Assessing Ecosystem Services and Biodiversity in a Culturally Diverse Mining Landscape	SPEED TALK: Yolanda Hanusch, HDR Student, The University of Sydney Crops, weeds, and exotic insectary plants: beyond introduced bee benefits? SPEED TALK: Dr Matt Hill, CSIRO Serial replacement of tench (Tinca tinca) by common carp (Cyprinus carpio) investigated through hierarchical modelling	Dr Ning Dong, Macquarie University Global controls of leaf nitrogen
Vaibhav Dagg, Master of Research Candidate, Western Sydney University Differential gene expression under drought between two widespread Eucalyptus species suggests unique adaptive abilities	Aunty Marilyne Nicholls How should we (Dja Dja Wurrung) engage western science to support Women's knowledge	SPEED TALK: Cassandra Kalafatakis, Honours Student, La Trobe University Associational Refuge Promotes Short-Term Seedling Survival in Coast Banksia SPEED TALK: Lorena Pinheiro Silva, PhD Student, Federal University of Santa Catarina Grazing efficiency asymmetry drives zooplankton top-down control in a subtropical lake dominated by non-toxic cyanobacteria	Dr Jodi Price, Senior Lecturer in Ecology, Charles Sturt University Herbivore exclusion effects on plant diversity depend on rainfall and evolutionary history
Manjunatha Chandregowda, Phd Student, Hawkesbury Institute for the Environment Warming and drought reduce belowground productivity and alter root traits in a model pasture grass	Nathan Wong Engaging with Government to deliver self- determination	SPEED TALK: Miranda Rew-Duffy, The University of Queensland Comparing the abundance and diversity of small vertebrates between a conservation reserve and surrounding farmland SPEED TALK: Louise Gill, Honours Student, Griffith University Values of ecosystem service provision for non-commercial fishing in the Mitchell Catchment	Dr Tanzeel Javaid Aini Farooqi, Ex-phd Student, Beijing Forestry University, China Hydrological legacy of forest harvesting intensity on streams: a global synthesis SPEED TALK: Jonathon Mifsud, Masters, Macquarie University Explorations of the plant virosphere
Dr Renée Marchin Prokopavicius, ARC DECRA Fellow, Western Sydney University Urban tree responses to heat and drought: which species can survive future climate conditions?	Daniel May, Australian National University Fire and Politics: What a Typology of Indigenous Burning Discourses Reveals	SPEED TALK: Jessica Keem, Masters Student, The University of Melbourne Fowl play in the Mallee: evaluating fox density at malleefowl adaptive management sites	Andrew Marshall, Associate Professor / ARC Future Fellow, University of the Sunshine Coast

	Bradley Posch, PhD Candidate, The Australian National University Night warming is more influential than daytime warming and heatwaves in driving wheat respiratory acclimation			SPEED TALK: Malaika Chawla, Stude University Investigating the determinants of t vulpes) range limits in North Queer	he red fox (Vulpes	Forest resilience to global liana proliferation: Emerging findings from the pantropical FoRCE experiment
	SPEED TALK: Rosalie Harris, PhD Candidate, Australian National University Vulnerability of marine plants to extreme temperature events: a mechanistic approach					
	SPEED TALK: Dr Samiya Tabassum, Post Doctoral Research Fellow, Macquarie University Angriest summer on record: assessing plant responses and economic costs of an extreme climatic event					
	15:45-15:55 LIVE QA with all presenters	15:20-15:30 LIV	E QA with all presenters	15:20-15:30 LIVE QA with all pre	senters	15:30-15:40 LIVE QA with all presenters
15:30 – 16:00	Afternoon refresh break (Monday)					
16:00 – 17:45	CONCURRENT SESSIONS 3					
	SYMPOSIUM: Temperature Extremes: impacts, resilience (Animals / Management and mitigation) CHAIR: Pieter Arnold	e and mitigation	OPEN FORUM: Wildlife Eco CHAIR: April Reside	logy	Open Forum: Methods CHAIR: Daniel Falster	and Monitoring (1)
	Caitlin Smith, Marine Species Conservation Officer, WWI Trialling seawater as an effective sand cooling method to feminisation in green turtles		Maquel Brandimarti, PhD C Sydney Does testosterone alter spa kangaroos more vulnerable	itial area use and make male		eritus Professor, University of Canberra treme parameter and future applications
	Associate Professor Craig Nitschke, University of Melbou Climate change drives habitat contraction of a nocturnal marsupial at its physiological limits		Dr Galen Holt, Deakin University Characteristics and consequence caddisflies	ersity uences of an emerging disease in	Genomics, remote sensi	ctoral Research Fellow, Murdoch University ing and conservation prioritisation: tools for mmal communities in multi-use landscapes
	Michael Callan, Founding Director, Habitech Pty Ltd Thinking outside the box: a novel nest box design with im properties	pproved thermal	Courtney Melton, PhD Cand Queensland The jury is out on lethal con vulnerable woodland birds	didate, The University of itrol of noisy miners to benefit	Dr Ali Chauvenet, Lectu Economic value of parks	rer, Griffith University s via mental health benefits
	Patrice Pottier, PhD Student, The University of New Sout Sex differences in thermal acclimation across ectothermic meta-analysis		Emma Dale, Dphil Student, University Understanding cyclic dynan rodents	Zoology Department Oxford nics in a community of wild	University	s, Research Assistant, Australian National rt judgement to inform ecological and aking

	SPEED TALK: Claire Mason, PhD Student, University of Tasmania Local weather, microclimate and nest-scale drivers of shy albatross chick mortality and breeding success SPEED TALK: Claire Sives, PhD Candidate, UNSW Regarding the impacts of climate change on dryland ecology	SPEED TALK: Alex Jiang, PhD Student, University of Queensland The development of an improved scat survey method for koalas Phascolarctos cinereus	SPEED TALK: Dr Zach Brown, Senior Technical Officer, Australian National University The Australian Mountain Research Facility SPEED TALK: Professor Jenny Davis, Co-director, Research Institute For Environment & Livelihoods, Charles Darwin University Ecological outreach via social media: responses to remote waterhole camera images indicate that dingoes rule!
	Dr Ryan Tangney, University of New South Wales How seed traits define seed fates in fire-prone ecosystems		SPEED TALK: Eric Vanderduys, Research Officer, CSIRO Grey-headed flying-fox monitoring SPEED TALK: Dr Maria Cardoso, Manager Biodiversity Conservation And Research, VicForests Monitoring species presence and persistence to inform best-practise biodiversity management of timber harvesting operations
	Dr Daniel Montesinos, Senior Research Fellow, Australian Tropical Herbarium – James Cook University What common-garden experiments tell us about climate responses in invasive plants		Simone Stevenson, PhD Candidate, Deakin University Testing for consensus amongst global biodiversity indicators
	17:35-15:45 LIVE QA with all presenters	17:35-15:45 LIVE QA with all presenters	17:35-15:45 LIVE QA with all presenters
18:00 – 18:45	ESA AGM		
19:00 – 20:00	ESA Queer Mixer Facilitated by Adam Frew and James Barker		

Tuesday 1 December 2020

8:00-8:45	International Networking Breakfast
9:00 – 10:00	PLENARY SESSION TWO Chair: Jodi Price
	Keynote presentation: ESA Next Generation Ecologist Award presentation: Laura Brannelly Understanding how some frogs coexist with disease: exploring changes in reproduction as a mechanism of population persistence
10:00 – 12:00	CONCURRENT SESSIONS 4

SYMPOSIUM: Perspectives on a changing landscape of fire (1) CHAIR: James Barker	SYMPOSIUM: Behavioural response to ecological challenges (1) CHAIR: Caitlyn Forster	OPEN FORUM: Restoration Ecology CHAIR: Daniel Falster	Open forum: Species Distribution CHAIR: Bek Christensen
Professor Alan Andersen, Charles Darwin University Faunal responses to fire in Australian tropical savannas: lessons from field experiments	Lily Bentley, University of Cambridge Habitat preferences in sympatry and allopatry of two closely-related albatross species	Jennifer O'Meara, Parklands Ecologist, Sydney Olympic Park Authority Restoring the restoration: bringing back woodland birds	Eleanor Hay, Monash University Geographic range size and speciation in honeyeaters
SPEED TALK: Nathan Anderson, Student, Kings Park Science, and Murdoch University Ecophysiological mechanisms underpinning resilience to climate change in the Northern Jarrah Forest (Western Australia) SPEED TALK: Matthew Chard, PhD Candidate, Australian National University Wallabies and wildifre: how fauna and fire interact to shape coastal vegetation communities SPEED TALK: Professor Don Driscoll, Deakin University How does fire interact with habitat fragmentation?	SPEED TALK: Abhilasha Aiyer, Honours Candidate, The University of Sydney Once bitten twice shy: Using Taste Aversion to protect wild Freshwater Crocodiles from Cane toads SPEED TALK: Sydney Collett, PhD Student, Charles Darwin University Sympatric finches use different foraging strategies to overcome resource limitations	Peta Zivec, Griffith University Patterns and drivers of natural regeneration on abandoned cropping fields in the Northern- Murray Darling Basin	Max Mallen-Cooper, PhD Student, University of New South Wales Peeking into the future of lichens and mosses with global species distribution models
Associate Professor Tina Bell, University of Sydney Prescribed burning for multiple objectives – the case for carbon and water	SPEED TALK: Cassie Speakman, PhD Candidate, Deakin University Temporal and spatial influences on foraging behaviour and hunting success in female AUFS	Dr Amanda Freeman, Nature North Comparing Biodiverse Tree-planting and Pasture Conversion Costs in the Wet Tropics Uplands	Amy Tims, Macquarie University Predicting distribution shifts in Australian freshwater fishes due to climate change
SPEED TALK: Hannah Etchells, The University of Western Australia Mega-fires, indicator species and indicator guilds: understanding post-fire ecosystem regeneration across kingdoms SPEED TALK: Dr Diana Kuchinke, Sessional Lecturer, Federation University Prescribed burn severity has minimal effect on common bird species in a fire-prone forest ecosystem SPEED TALK: Sarah McColl-Gausden, PhD Candidate, The University of Melbourne Assessing immaturity risk to alpine ash forests under climate change and future fire regimes	SPEED TALK: Ettore Camerlenghi, Monash University The multilevel society of a cooperatively breeding songbird Caitlyn Forster, PhD Candidate, The University of Sydney Testing the impact of Phantom Alternatives on floral choice by Bumblebees, Bombus impatiens	Brittany Elliott, PhD Candidate, University of The Sunshine Coast Identifying spatial drivers of plant assemblage structure and complexity to prioritise restoration and rehabilitation actions	Laura Town-Hopkinson, Masters Student, The University of Melbourne Understanding the key disturbances driving bandicoot distribution in south-west Victoria
Professor Mike Clarke, La Trobe University Understanding the drivers is crucial to envisaging the future for semi-arid Murray Mallee woodlands	Dr Mylene Mariette, Deakin University Coping with heat and competition: songbird embryos cue on sounds in the nest	Dr Sue Baker, Research Fellow, University of Tasmania Environmental and biotic drivers of plant and animal succession following timber harvesting	Dr Richard Segal, PhD Candidate, Charles Sturt University

				Small-scale species distribution model identifies restricted breeding habitat for an	
	Andrew Denham, Senior Resarch Scientist, Dept Planning, Industry & Environment NSW Temporal dynamics of plant populations after fire: a tale of Acacias with contrasting life histories	Dr Tim Doherty, DECRA Fellow, University of Sydney Human disturbance causes widespread disruption of animal movement	Andrew O'Reilly-Nugent, Climate Friendly How does ecological thinning affect the development of regenerating mulga forests?	endemic island bird	
	SPEED TALK: Dr Josh Whittaker, University of Wollongong Please tell me your story: Community experiences of bushfire		SPEED TALK: Nathali Machado de Lima, Research Associate, UNSW Improving restoration of native plant communities in drylands with biocrust cyanobacteria		
		Samantha Wallace, The University of Newcastle	SPEED TALK: Catherine Bowler, PhD Candidate, University of Queensland Restoration through a coexistence lens	Jarrod Sopniewski, Honours Student, Australian National University The future of frogs: predicting the impacts of a changing climate on Australian anurans	
	Julianna Santos, PhD Candidate, The University of Melbourne A synthesis of fire-driven declines of threatened mammals in Australia	Between bedrock and a hard place: discovering the impact of longwall-mining on Littlejohn's tree frog	Dr Michelle Gibson, Post-doctoral Researcher, The University of Queensland Restoring for resilience: replanting and grazing exclusion benefit birds in Australia's south-east temperate woodlands SPEED TALK: Katharine Hogan, University of Nebraska-Lincoln Inter-decadal plant richness and diversity is persistent and consistent across high-diversity grassland restorations in a patch-burned landscape		
	11:55-12:05 LIVE QA with all presenters	11:55-12:05 LIVE QA with all presenters	11:55-12:05 LIVE QA with all presenters	11:35-11:45 LIVE QA with all presenters	
12:05 – 14:00	Take a break (Tuesday) Virtual Exhibition open 12:00-14:00				
12:10 – 14:00	Lunchtime workshop 3. Early Career Ecology: How do you write a job application during a pandemic? So glad you (m)asked Facilitated by Stephanie Courtney-Jones and Leanda Mason				
12:30 – 13:30	Lunchtime workshop 2. Sharing your data through TERN Data Infrastructure Facilitated by Siddeswara Guru and Jenny Mahuika				
14:00 – 15:30	CONCURRENT SESSIONS 5				

SYMPOSIUM: Perspectives on a changing landscape of fire (2) CHAIR: Heather Simpson	SYMPOSIUM: Behavioural response to ecological challenges (2) CHAIR: Caitlyn Forster	OPEN FORUM: Marine and Freshwater CHAIR: John Morgan	OPEN FORUM: Conservation Biology (1) CHAIR: Don Driscoll
SPEED TALK: Craig Welden, Qld Fire & Biodiversity Consortium, Healthy Land & Water Cross-tenure Collaborative Fire Management: Building Capacity and Healthy Landscapes SPEED TALK: Fred Rainsford, La Trobe University How does prescribed fire shape bird and plant communities in a temperate dry forest ecosystem?	Sarah Stock, PhD Candidate, University of Newcastle Nightlife of a threatened frog: Molecular pedigree uncovers cryptic behaviours in Litoria Littlejohni	Dr Murtada Naser, University of Basrah Environmental factors as drivers for species distribution of the freshwater crabs in the Tigris- Euphrates basin	Associate Professor Noel Preece, Director, Biome5 Pty Ltd Legislative snooker – Red Lists and national laws provide only rhetorical protection to threatened species
SPEED TALK: Katharine Senior, PhD Candidate, The University of Melbourne A field experiment to test how mammals and reptiles respond to characteristics of planned burning SPEED TALK: Harriet Simpson-Southward, PhD Candidate, University of Wollongong Effects of climate change on resilience of fire prone eucalypt communities	SPEED TALK: Dr Lizzy Lowe, Postdoctoral Researcher, Macquarie University Spider brain size and behaviour in cities SPEED TALK: Andrew Schwenke, PhD Candidate, Queensland University of Technology Evolution of acoustic communication in two species of frogs in the Litoria lesueuri species group	Yi-Yang (Alex) Chen, PhD Candidate, The Australian National University Seasonality of epifaunal secondary production in a fringing reef, and its sensitivity to changing climate	Tahlia Townsend, Deakin University The population ecology and behaviour of eastern barred bandicoots following conservation translocations
SPEED TALK: Dr Rachael Nolan, Lecturer, Hawkesbury Institute for the Environment, Western Sydney University The role of bark attributes and drought in fire resistance in resprouting tree species SPEED TALK: Christopher Pocknee, PhD Candidate, University of Queensland Saving an endangered bettong with fire SPEED TALK: Simin Rahmani, PhD Student, University of Wollongong Effects of 38 years of wildfires on tree density in the Blue Mountains, Australia	SPEED TALK: Natalie Freeman, PhD Candidate, University of Queensland Hey neighbour! Kin-based social interactions in an asocial solitary marsupial, the northern quoll (Dasyurus hallucatus) SPEED TALK: Richard McLellan, PhD Student, Charles Sturt University Parasitic shrubs provide important ecological processes for fauna in Australia's rangeland ecosystems SPEED TALK: Renae Kirby, University of Wollongong Digging Deeper: Investigating Temperature Effects on the Behaviour of the Burrowing Mud Shrimp, Trypaea australiensis	Catheline Froehlich, PhD Fellow, University of Wollongong Who will recover: extreme climatic events affect habitat use and persistence of coral-dwelling fishes	Associate Professor Heloise Gibb, Associate Professor, La Trobe University Experimental evidence for ecological cascades following threatened mammal reintroduction
SPEED TALK: Eliza Thompson, Masters Student, The University of Melbourne Flying in the face of fire: the influence of fire edges on mallee birds	Vanessa Gorecki, Queensland University of Technology Landscape use in an urban environment by a trawling bat, the large-footed Myotis (Myotis macropus)	Matthew Kerr, Macquarie University A Latitudinal Gradient in Australian Marine Bivalves Revealed by a Large Field Survey	Dr Jessica Walsh, Lecturer, Monash University Evidence-based conservation for Australian woodland birds: a systematic review
SPEED TALK: Alexandria Thomsen, UNSW Season of fire impacts flowering in Lambertia Formosa	SPEED TALK: Lorenzo Galletta, PhD Candidate, Deakin University	Charles Hinchliffe, PhD Candidate, UNSW	Gavin Trewella, PhD Candidate, Charles Darwin University

	SPEED TALK: Saumya Wanniarachchi, PhD Student, University of Melbourne Using e-DNA to better understand the effect of fire on the diets of small mammals	Embryonic strategies for surviving heatwaves: evidence of heat shock proteins in zebra finches	A novel approach for estima mortality of fish larvae acros		Habitat preference by northern quolls and feral cats in savanna woodlands
	SPEED TALK: Lily Wheeler, Master Student, The University of Melbourne How does extent, configuration and diversity of fires shape mammal populations in heathy woodland ecosystems? SPEED TALK: Andy Wiechnik, University of Sydney Near-term decision tree for fire management using trends in degradation condition scores for threatened ecosystems SPEED TALK: Jane Williamson, PhD Candidate, Australian Catholic University Location is a better predictor of time since fire than vegetation type	Dr Graham Fulton, Perspectives Editor Pacific Conservation Biology, University of Queensland Nest ecology in the context of an intact community: a provocative synthesis of knowledge from Dryandra			
	SPEED TALK: Dr Mengran Yu, University of Sydney Detecting the effects of Prescribed burning using generalised additive modelling				
	15:30-15:40 LIVE QA with all presenters	15:18-15:30 LIVE QA with all presenters	15:18-15:30 LIVE QA with al	l presenters	15:18-15:30 LIVE QA with all presenters
15:30 – 16:00	Quick refresh break (Tuesday)				
16:00 – 17:45	CONCURRENT SESSIONS 6				
	OPEN FORUM – Methods and Monitoring (2) CHAIR: Sacha Jellinek	SYMPOSIUM Approaches for detailing threa costs for threatened species recovery acros Watson		OPEN FORUM: Funct CHAIR: Dan Falster	ional Ecology
	Kevin Newman, Student, University of Melbourne Optimal Surveillance Methods	Dr Josie Carwardine, Research Scientist, CSI Knowledge synthesis to guide large-scale sp it and where we're at?			nD Candidate, Macquarie University hotosynthetic variation among co-occurring mality approach
	Zoe Xirocostas, PhD Student, UNSW Sydney The ZAX herbivory trainer – new software for training researchers to visually estimate leaf damage	Michelle Ward, University of Queensland What threatens Australian biodiversity and after catastrophic fires?	how do we assist recovery	Mark Westoby, Maco Trait-dimensions of e compared to vascula	cological strategy in bacteria and archaea
	Rebecca Rogers, Charles Darwin University	Professor Helene Marsh, Emeritus Professo	r, James Cook University	Rose Brinkhoff, PhD S	Student, University of Tasmania

	Testing the capacity of weather radar-based bird monitoring to improve waterbird management	A new framework for biodiversity threat abatement in Australia	Nitrogen fertiliser increases LAI but creates carbon and water costs in Eucalyptus nitens
	Dr Georgia Dwyer, Senior Research Assistant, Deakin University Capturing geomorphologial patterns in ecological resources: fractal dimensions describe fluvial rock distributions	CJ Yong, Research Assistant, University of Queensland How to save the world without knowing how much it costs?	Hannah Carle, PhD, Research School of Biology, ANU Applying functional traits to predict vital rates of trees in a Borneal rainforest restoration landscape
	Dr Martin Westgate, Science Advisor, Atlas of Living Australia / CSIRO Improving the Atlas of Living Australia for ecological researchers	Dr April Reside, Postdoctoral Research Fellow, The University of Queensland A knowledge synthesis to inform a national approach to fighting extinction	Baptiste Wijas, PhD Candidate, University of New South Wales The functional role of termites along macro-climatic gradients
	Dr Rebecca Lester, Associate Professor, Freshwater Ecology, Deakin University Explaining species diversity in a fractal world	Billy Geary, PhD Student, Department of Environment, Land, Water & Planning Lessons from implementing a spatial conservation action planning tool in Victoria, Australia	Dr Andrea Westerband, Postdoc, Macquarie University Soil and climate properties jointly influence leaf traits in native Australian species
	SPEED TALK: Ana Gracanin, PhD Candidate, University of Wollongong Animal selfies: Can sugar glider density be estimated through camera trapping?	Dr Micha Jackson, Post Doctoral Research Fellow, The University of Queensland The Australian Threatened Species Index: Inaugural Threatened Plant Index and Future Directions	Dr Yuki Tsujii, Postdoctoral Research Fellow, Macquarie University Roles of leaf phosphorus fractions in phosphorus-use efficiency for 12 coexisting NSW woody species
	SPEED TALK: Giancarlo Chiarenza, PhD Student, UNSW Barking up the wrong tree – are ecologists studying the correct aspects of soil quality? SPEED TALK: Dr Kate Watermeyer, Research Fellow, Deakin University How do biodiversity indicators behave across different ecoregions?		SPEED TALK: Dony Indiarto, PhD Student, University of New South Wales An eco-evolutionary model for trait-based community assembly along an environmental gradient
	17:40-17:50 LIVE QA with all presenters	17:40-17:50 LIVE QA with all presenters	17:40-17:50 LIVE QA with all presenters
3:00 – 19:30	Barbara Rice Memorial Poster Session		

Wednesday 2 December 2020

9:00 – 10:00	PLENARY SESSION THREE Chair: Daniel Falster
	Keynote presentation: Dr Belinda Medlyn Climate change and the Australian vegetation: where are we headed?

10:00 – 12:00	CONCURRENT SESSIONS 7			
	SYMPOSIUM: Ecological Extremes in Antarctica, mechanisms of resilience and recovery CHAIR: Diana King	SYMPOSIUM: Windows into resilience and recovery: technological advances and the acquisition of data in ecological systems (1) CHAIR: Andy Davis	SYMPOSIUM: Citizen Science: a tool for ecology, conservation and science communication (1) CHAIR: Katie Irvine	SYMPOSIUM: Tree dieback in Australian Ecosystems (1) CHAIR: Matthew Brookhouse
	Dr Dana M. Bergstrom, Principal Research Scientist, Australian Antarctic Division Global environmental pressures on terrestrial biodiversity in the Vestfold Hills, East Antarctica	Wilma Karsdorp, University of Queensland Developing robust data management for ecosystem images	Professor Kirsten Parris, Associate Professor, The University of Melbourne The CAUL Urban Wildlife App: Engaging citizen scientists with nature in the city	Dr Katinka Ruthrof, Forest Ecologist, DBCA Cross-scale investigation of declining forest cover in southwestern Australia
	Dr Jasmine Lee, Monash University Conserving Antarctic biodiversity with priority threat management SPEED TALK: Alison Haynes, PhD Candidate, University of Wollongong From CBD to glacier edge: moss colonisation and climate change	SPEED TALK: Allison Broad, PhD Candidate, University of Wollongong Remote Technologies reveal Wollongong's sponge gardens: classification approaches for diversity and ecological assessments SPEED TALK: Brittany Hayward-Brown, Honours Student, Charles Darwin University Automated radio telemetry data informs wildlife management practices aimed at the recovery of threatened species	Dr Aaron Greenville, Lecturer, University of Sydney Too little or too much data: citizen scientists may have the answer	Professor Giles Hardy, Professor Forest Pathology, Murdoch University Understanding the causes of Eucalyptus rudis decline in southwestern Australia
	SPEED TALK: Shae Jones, Research Assistant, University of Wollongong Current state of Antarctic biodiversity monitoring	Professor Andy Davis, University of Wollongong Aerial surveillance as an ecological tool; data collection with blimps in the wave-swept coastal zone	Dr Clare Hawkins, Bookend Trust, University of Tasmania Mission: long-term, state-wide population monitoring of the Tasmanian wedge-tailed eagle (Aquila audax fleayi)	Dr Paul Rymer, Western Sydney University Variation in xylem vessel plasticity associated with climate-origin provides adaptive capacity to drought
	SPEED TALK: Isabella Todd, University of Wollongong Challenges of monitoring Antarctic lichen communities using photo digitisation	Vinod Jacob, PhD Candidate, Western Sydney University Leaf hydraulic vulnerability and gas exchange strategies of pasture species under drought	Dr Katharine Haynes, University of Wollongong How citizen science promotes and is enriched by connection to place	Dr Jen Peters, Postdoc, Oak Ridge National Lab, TN USA What is the threat of drought-induced hydraulic failure in Australian forests?
	Dr Diana King, Research Officer, Global Challenges Program, University of Wollongong Monitoring East Antarctic vegetation in a time of change	Anna Giles, PhD Student, Southern Cross University Combining drones and machine learning technology for rapid coral reef health assessment	Dr Birgita Hansen, Federation University What characterises successful citizen science? A comparison of community-based freshwater and shorebird monitoring	Kate Johnson, PhD Student, University of Tasmania How the pipes fail: xylem failure spreads by single-conduit embolisms in three dry-forest angiosperm stems
	Dr Melinda Waterman, Associate Research Fellow, University of Wollongong	Jacinta Holloway Brown, Postdoctoral Fellow, QUT A machine learning method for detecting forest change events and interpolating missing satellite image data	Dr Alex Kusmanoff, RMIT University Tips for designing environmental engagement programs	Victoria Pérez Martínez, Phd Student, Hawkesbury Institute for Environment

	Old-growth moss forests as proxies for microclimates in coastal Antarctica			Can we explain eucalypt drought vulnerability from species climate-origin and life-history traits?
		Lachlan Howell, PhD Candidate, The University of Newcastle Is drone technology the cost-effective solution for koala monitoring?	Dr Sheryn Pitman, Program Manager Inspiring South Australia, Inspiring South Australia The contribution of citizen science in building ecological literacy	Dr Samuel Hislop, NSW Department of Primary Industries Quantifying the spatial extent of the 2018- 19 drought on canopy health in NSW north- coast forests
		Yogendra Karna, School of Ecosystem and Forest Sciences Fuel structure responses to severe wildfire in mixed eucalypt forests: implication for flammability	Dr Erin Roger, Citizen Science Program Lead, CSIRO Using citizen science to enable meaningful participation in bushfire recovery	SPEED TALK: Anne-Cecile Colin, PhD Candidate, Western Sydney University — Hawkesbury Institute for the Environment Adaptive capacity to climate change: Genomic underpinnings of drought tolerance in threatened eucalyptus species
	11:30-12:00 LIVE DISCUSSION	11:45-11:55 LIVE QA with all presenters	11:50-12:00 LIVE QA with all presenters	11:50-12:00 LIVE QA with all presenters
12:00 – 14:00	Take a break (Wednesday) Virtual Exhibition open 12:00-14:00			
12:10 – 13:50	Lunchtime workshop 4. Sci-what?! How to comm	nunicate your science effectively Facilitate by Euan Ritchie and	d Jen Martin	
12:30 – 13:30	Lunchtime workhop 5. ecoEd – training for next g	generation researchers and practitioners in ecological and en	vironmental problem solving Facilitated by Elisa Bayrakta	rov and Jenna Wraith
14:00 – 15:30	CONCURRENT SESSIONS 8			
	SYMPOSIUM: Wetland management and restoration in human-dominated landscapes CHAIR: Jayne Hanford	SYMPOSIUM: Windows into resilience and recovery: technological advances and the acquisition of data in ecological systems (2) CHAIR: Allison Broad	SYMPOSIUM: Citizen Science: a tool for ecology, conservation and science communication (2) CHAIR: Ayesha Tulloch	SYMPOSIUM: Tree dieback in Australian Ecosystems (2) CHAIR: Kate Johnson
	SPEED TALK: Jayne Hanford, PhD Student, The University of Sydney Improving environmental and human health by integrating urban wetland and mosquito research SPEED TALK: Dr Nina McLean, Monitoring and Evaluation Officer, Conservation Research ACT Government Restoration success of Sphagnum Bogs after fire	Asitha Samarawickrama, University of Melbourne Are handheld thermal cameras effective for detecting threatened mammals in a semi-arid environment? SPEED TALK: Sarah O'Hea Miller, University of Wollongong Keeping up with the crayfish: Radio-tracking the movement patterns of native and invasive freshwater crayfish	SPEED TALK: Peter West, Research Officer, NSW Department of Primary Industries Citizen and community-group based surveillance of invasive species using FeralScan for improved pest management SPEED TALK: Anne Eichholtzer, PhD Student, Deakin University From natural to social sciences: the multiple values of Citizen Science	Dr Matthew Brookhouse, Senior Lecturer, Australian National University Snow-gum dieback—current knowledge and opportunities to gain unique insights to a widespread phenomenon

	Dr Tanya Mason, Research Fellow, UNSW			Dr Stefan Arndt, The University of
	Sydney Application of the mitigation hierarchy: a case study of underground mining impacts on peatland ecosystems	SPEED TALK: Penelope Pascoe, University of Tasmania Island ecosystem function recovery through an isotopic lens	SPEED TALK: Maureen Thompson, PhD Candidate, UNSW What signals time to breed? Citizen science reveals exogenous influences to frog calling across Australia	Melbourne Landscape level assessment of tree drought mortality in forests of the Strathbogie Ranges in Australia
	Dr Swapan Paul, Manager Wetlands, SOPA Mangrove rehabilitation requires multifactorial and multidimensional thinking	SPEED TALK: Caitlin Woods, PhD Candidate, University of Wollongong Predicting patterns of biodiversity in the World Heritage listed Lord Howe Island Marine Park Alex Santiago, Honors Student, University of Melbourne The influence of landscape-scale pattern on the genetic diversity of an Australian skink	SPEED TALK: Larissa Braz Sousa, PhD Candidate, University of South Australia e-entomology Citizen Science enhances mosquito surveillance in urban areas	Jingyi Ding, PhD Student, University of New South Wales Grow wider or thicker: variable response of woody plants to increasing dryness
	Dr Kay Morris, Senior Scientist, Arthur Rylah Institute for Environmental Research, Department of Environment Land Water and Planning Goldilocks and the three sheep and cows: Optimizing grazing for wetland biodiversity in agricultural landscapes	Benjamin Wagner, PhD Candidate, The University of Melbourne Gliding for gliders: Using commercial UAV and multispectral technology to identify greater glider foraging habitat	SPEED TALK: Lauren Hook-Walker, Threatened Species Officer, Department of Planning, Industry and Environment That Glossy looks familiar! – Photo identification of female Glossy black- cockatoos by citizen scientists	Dr Carola Pritzkow, UTAS Size and spatial positioning of embolized conduits under natural drought
	Associate Professor Cameron Webb, University of Sydney Urban estuarine wetlands and the challenges of managing mosquitoes of pest and public health importance	Dr Debbie Saunders, Conservation Ecologist, CEO & Chief Remote Pilot, Wildlife Drones & ANU Drones & Wildlife: evaluating applications of drone technologies for ecological data collection	SPEED TALK: Maree Treadwell, President / Ecologist, Bats and Trees Society of Cairns Saving our Spectacled Flying-fox – citizen science project to engage communities in conserving Spectacled Flying-foxes	Vanessa Tonet, University of Tasmania Tree mortality: could genetic variation select for drought resistance in Eucalyptus viminalis?
		Daniel Swadling, PhD Candidate, University of Wollongong Fish and chips: tracking the movements of juvenile fish in a temperate marine park	14:40-15:30 LIVE DISCUSSION	Dr Rebecca Jones, University of Tasmania Recovering the gene pool of Eucalyptus morrisbyi following rapid dieback
	15:20-15:30 LIVE QA with all presenters	15:30-15:40 LIVE QA with all presenters		15:20-15:30 LIVE QA with all presenters
15:30 – 16:00	Quick refresh break (Wednesday)			
16:00 – 18:00	CONCURRENT SESSIONS 9			

OPEN FORUM: Climate change and plants CHAIR: Jennifer Firn	SYMPOSIUM: Improving the adaptive potential of restored communities CHAIR: Marlien van der Werwe	OPEN FORUM: Fire Impacts CHAIR: Sam Lloyd	SYMPOSIUM: Tree dieback in Australian Ecosystems (3) CHAIR: Matthew Brookhouse
Laura White, PhD Candidate, Southern Cross University Climatic extremes add complexity to threatened species management: the impact of drought on Hairy Jointgrass	Dr Peter Harrison, Post-doctoral Research Fellow in Restoration Genetics, University of Tasmania Provenancing strategies to enhance the adaptive potential of forest restoration plantings	Dr Orpheus Butler, Smithsonian Tropical Research Institute Stoichiometry links biogeochemical and ecological responses of wet eucalypt forest to long-term fire regime	SPEED TALK: Associate Professor Brendan Choat, Western Sydney University Tree dieback associated with the 2017- 2020 drought in south-eastern Australia
Chung-Huey Wu, PhD Candidate, University of Melbourne Allocating permanent and temporary habitat conservation under uncertain climate change and land-loss	Kevin Bairos-Novak, James Cook University Evolving to ecological extremes: A review and meta- analysis of heritability estimates in corals	Meghan Porteous, Master's Student, University of Melbourne Wildfires, Flammable oils, and Eucalyptus trees: The persistence and volatility of terpenes in excised leaves	SPEED TALK: Jessica Ward-Jones, Masters Student, Australian National University Dieback of snow gums in Perisher Valley, NSW: symptoms and drivers
Dr Mark Hall, Postdoctoral Research Fellow, Western Sydney University How will climate change affect stingless bee population dynamics and crop pollination potential?	Allison Mertin, PhD Candidate, Royal Botanic Gardens Sydney Seed and Soil Microbiomes for Natural Ecosystem Restoration	Rachel Nalliah, University of Melbourne A love triangle between fire, resource availability and the endangered Heath Mouse	SPEED TALK: Professor Timothy Brodribb, University of Tasmania Seeing drought from the leaf perspective
Rocco Notarnicola, PhD, Australian National University Plastic responses of the alpine herb Wahlenbergia ceracea to climate warming?	John Whale, PhD Candidate, Western Sydney University Adaptation of foundation red gum Eucalyptus species to climate	Dr Holly Sitters, The University of Melbourne Mammal responses to spatial pattern in fire history depend on landscape context	
Anu Singh, PhD candidate, The University of Melbourne The role of climatic variability on eucalypt regeneration in southeast Australia	SPEED TALK: Dr Patricia Lu-Irving, Royal Botanic Gardens & Domain Trust Mating system and diversity in seed collections for restoration/conservation	Anna Lemon, Charles Darwin University Managing Fire to Recover Monsoon Vine Thickets on the Dampier Peninsula	
Travis Britton, PhD Candidate, University of Tasmania, Hobart, Australia Neighbour effects on the growth of two eucalypts are dependent on climate	Dr Jason Bragg, Research Centre for Ecosystem Resilience, Royal Botanic Gardens, Sydney Adapted and adaptable? The genetics of conservation	SPEED TALK: Mercedes Ondik, PhD Candidate, UNSW Land management influences the effects of fire on soil properties and ecosystem services	16:30-17:30 LIVE DISCUSSION
Dr Jenna Wraith, Griffith University The impact of climate change on threatened orchids in Queensland	SPEED TALK: Dr Enhua Lee, Department of Planning, Industry and Environment Using genetic tools and climatic models for planning the conservation translocation of Eucalyptus sp. Cattai Jessica Latimer, Student, The University of Queensland	SPEED TALK: Simeon Zylinski, University of Melbourne Fire regimes and landscape structure – interactions shaping mammal communities in the Mount Lofty Ranges	

		Conservation genetics of the northern quoll (Dasyurus hallucatus) on Groote Eylandt	SPEED TALK: Joshua Whitehead, University of New England Post-fire herb growth can support pollinators and partially alleviate the severity of drought impacts	
	Dr Melinda Laidlaw, Senior Ecologist, Queensland Herbarium Climate change impacts on cloud forests in the Gondwana Rainforests of Australia World Heritage Area	SPEED TALK: Dr Samantha Yap, Research Centre for Ecosystem Resilience, Royal Botanic Gardens Sydney Assessing evolutionary potential loss in rare species and solutions to recover or maintain diversity	SPEED TALK: Erin Thomas, Masters Student, The University of Melbourne Impact of fire and habitat composition on the daily roo-tine of macropods	
	SPEED TALK: Mohammad Golam Kibria, PhD Candidate, Hawkesbury Institute for the Environment, Western Sydney University Testing tree performance in the drier and hotter climate urban forests	Dr Trevor Wilson, ABRS Postdoctoral Fellow, Royal Botanic Gardens & Domain Trust Overestimation of species presents complications for conservation	SPEED TALK: Emily McColl-Gausden, PhD Student, The University of Melbourne Using environmental DNA sampling to survey bushfire impacts on platypus	
	17:55-18:05 LIVE QA with all presenters	17:55-18:05 LIVE QA with all presenters	17:40-17:50 LIVE QA with all presenters	
18:00 – 19:00	Science Communication Research Chapter Mixer			
19:00 – 20:30	Online Trivia			

Thursday 3 December 2020

9:00 – 10:00	PLENARY SESSION FOUR Chair: Sacha Jellinek
	Keynote presentation: AERA presentation: Diana Fisher The evolution and ecology of semelparity
	ESA Ecological Impact Award Presentation: Dr Yung En Chee and Dr Rhys Coleman Ecological modelling and waterway management prioritization in greater Melbourne
10:00 – 12:00	CONCURRENT SESSIONS 10

SYMPOSIUM: Our national State of the Environment – Key issues during a time of change (1) CHAIRS: Dennis Murphy, Jeanette Corbitt, Ian Cresswell	SYMPOSIUM: Building resilience and recovering communities: collaborations between practitioners and researchers CHAIR: Sacha Jellinek	SYMPOSIUM: Short-term impacts of the 2019-20 Fire Season CHAIRS: Owen Price, Mark Ooi	OPEN FORUM: Plant Ecology CHAIR: Joshua Buru
Dr Becky Schmidt, CSIRO Land and Water Integrating the 2021 Australian State of the Environment and environmental-economic accounts	Dr David Bain, NSW Department of Planning, Industry and Environment Partnerships secure the conservation of Pomaderris walshii	Dr Rachael Gallagher, Macquarie University Assessing the impact of the 2019-2020 bushfire season on Australia's 26,000 plant species	Professor Caroline Gross, University of New England High specialisation and modularity in a mangrove pollination network invaded by two super-generalist Apis species
Erica Marshall, PhD Candidate Beyond habitat compensation in biodiversity offsetting: do species-based metrics improve species persistence?	SPEED TALK: Dr Nicole Hansen, Department of Planning, Industry and Environment How the Saving our Species program ensures threatened species monitoring leads to conservation outcomes	Professor David Keith, Professor of Botany, University of NSW Loss of resilience after longwall mining leads to post-fire collapse of peatland ecosystems	Simone Currie, Master's Student, La Trobe University Intraspecific Ploidy Variation in Sweet Quandong (Santalum acuminatum): Evidence for Polyploidy and Ploidy Reduction
Dr Rowan Trebilco, Team Leader, CSIRO Oceans and Atmosphere 2021 State of the Australian Marine Environment: a seascape of change	Jennie Cramp and Kate McShea, NSW Rural Fire Service Supporting communities to meet their fire management goals: the evolution of the Hotspots Fire Project	Paul Donatiu, QLD Fire & Biodiversity Consortium, Healthy Land & Water The 19/20 Queensland Bushfire Season and Post- fire Plant Responses in the Border Ranges (Qld)	Dr Victor Neldner, Science Leader, Queensland Herbarium Monitoring changes in ground layer of Queensland tropical savannas over 23 years
Gabrielle Lebbink, University of Queensland Land use change and the spread of invasive species: A case study from Queensland, Australia	Renée Hartley, PhD Candidate, Australian National University Collaboration bolsters efforts to conserve an Endangered lizard in the face of increasing disturbances	Justin Mallee, Saving Our Species Project Officer, NSW National Parks and Wildlife Service Fire in Gondwanan Rainforests, impacts and recovery of range restricted threatened flora, north east NSW	Dr John Morgan, La Trobe University Seed supply ecology in the high mountains
SPEED TALK: Dr Jasmin G. Packer, Environment Institute, The University of Adelaide Can learning from invasion syndromes inform multi-disciplinary environmental indicators for threatened species?	Dr Sacha Jellinek, Research Fellow, University of Melbourne Community-based Monitoring to Assess Revegetation Outcomes	Berin Mackenzie, Scientist (Ecosystems & Threatened Species), Department of Planning, Industry and Environment (NSW) Persistence of Wollemi Pine under contemporary fire regimes: impacts and insights from the 2019-20 bushfires	
Dr Elisa Bayraktarov, Postdoctoral Research Fellow, The University of Queensland Multispecies trends for Australia's imperilled birds in protected areas	Belinda Pellow, Senior Botanist, AMBS Ecology & Heritage Detecting management responses in box gum grassy woodland offsets	Nicholas Wilson, PhD Student, University of Wollongong Interactive effects of logging and wildfire on forest carbon stability	Dr Amy-Marie Gilpin, Postdoctoral Research Fellow, Western Sydney University High co-flowering species richness increases pollinator visitation to apple flowers

		SPEED TALK: Dr Stephanie Pulsford, Ecologist, ACT Government Combating the threat of Sambar Deer through a science-practitioner partnership	Nicola Kent, PhD Stude Estimating fire impact control design	dent, USC t on koalas – an impact/	Susanna Bryceson, Post-grad, La Trobe University How climate affects the distribution of ancient and modern native grasses in Australia
	Dr David Nipperess, Senior Scientist, NSW Department of Planning, Industry & Environment The Biodiversity Outlook Report: Status and trends in biodiversity and ecological integrity across NSW	Dr Stephanie Stuart, Senior Project Officer, Saving our Species, Department of Planning, Industry and Environment The costs of Saving our Species: from planning to implementation and back again	Impact and recovery	niversity of Wollongong of ground dwelling mammals the 2020 Currowan bushfire	Dr Lyndsey Vivian, Arthur Rylah Institute How do grasses respond to experimental submergence in summer? SPEED TALK: Meena Sivagowre Sritharan, The Australian National University (ANU) Biotic associations between plants can influence the occurrence of rare species across different vegetation communities
	Dr Dan Metcalfe, Deputy Director, Land & Water, CSIRO Expecting the unexpected – planning for extreme events	Dr David Mackay, University of New England Recovery by bulldozer – collaboratively managing the survival of endangered species that require disturbance SPEED TALK: Chantelle Doyle, Ecologist/student, UNSW/AMBS Uncovering fundamentals; Mating system and population genetics of Hibbertia spanantha for conservation planning	Environmental Science Technology Sydney	wildfires on an endangered	Osazee Oyanoghafo, Hawkesbury Institute for the Environment Drought tolerance of Hakea species from range of biomes and life-histories is dependent on aridity SPEED TALK: Dr Susanna Venn, Senior Lecturer, Deakin University Snowmelt timing affects short-term decomposition rates in an alpine snowpatch
	11:55-12:05 LIVE QA with all presenters	11:55-12:05 LIVE QA with all presenters	12:00-12:30 LIVE DIS	CUSSION	12:00-12:10 LIVE QA with all presenters
12:00 – 14:00	Take a break (Thursday) Virtual Exhibition open 12:00-14:00				
12:30 – 13:30	Lunchtime workshop 6. Tips and Tricks for Startin	g an online Seminar Series Facilitated by Jasmin Packer			
12:30 – 13:30	Lunchtime workshop 7: Using Virtual Laboratories	s to solve environmental problems – the EcoCommons Aust	ralia Program showcase	es it analytical tools Facilitated by	Rachel Jones, Elisa Bayraktarov, Jenna Wraith
14:00 – 15:30	CONCURRENT SESSIONS 11				
	ROUND TABLE DISCUSSION: Bringing an Indigenous voice to State of Environment reporting	OPEN FORUM: Conservation Biology (2) CHAIR: Jennifer Firn		OPEN FORUM: Behaviour (1) CHAIR: Bek Christensen	
	Facilitated by Ian Cresswell, Jeanette Corbitt, Dennis Murphy	Daniel Nugent, PhD Candidate, La Trobe University Stock grazing as a tool for habitat management for the P lowland temperate grasslands	Plains-wanderer in		her, Royal Holloway, University of London ace: adaptive sensing and site-specific dispersal

	Panel Members include Terri Janke, Joe Morrison	Dr Teresa Eyre, Queensland Herbarium Conservation status of a dynamic keystone resource: The producing habitat for flying foxes	decline of nectar-	Department of Planning, Indus	eader, Ecosystems and Threatened Species, NSW try and Environment stal dispersal in the spotted-tailed quoll
		Dr Jessica Rowland, Monash University Effectiveness of conservation management actions for co	ol-climate peatlands	Joshua Gaschk, University of Tl Quantifying Koala Locomotion Aborealism in Marspupials	ne Sunshine Coast Strategies: Implication for the Evolution of
		Jedda Lemmon, Senior Threatened Species Officer, NSW Infrastructure and Environment Illawarra Socketwood – The tree that moves through the			toral Research Fellow, University of Tasmania an accident landscape when deciding where
		SPEED TALK: Tristan Guillemin, PhD Candidate, Macquar Using stable isotopes to understand marlin trophic ecology their geographic range SPEED TALK: Luz Pascal, Undergraduate Student, CSIRO A Shiny-R-app to solve the problem' when to stop manage cryptic threatened species' SPEED TALK: Roshan Sharma, PhD Candidate, RMIT University Improving adequacy of ecosystems and populations on present the stable problem.	gy at the edge of ing or surveying ersity	Siobhan Heatwole, PhD Candic Large spatial scale comparison for predicting resilience	late, University of Wollongong s of social behaviour across ecological contexts
		Matthew Rees, PhD Student, University of Melbourne Drivers of feral cat density and spatio-temporal behaviou forests	r in temperate	Thomas Clarke, PhD Candidate Spider body plans: the interpla	, Macquarie University y of phylogeny and hunting methods
		15:25-15:35 LIVE QA with all presenters		15:25-15:35 LIVE QA with all p	resenters
15:30 – 16:00	Quick refresh break (Thursday)				
16:00 – 17:00	CONCURRENT SESSIONS 12				
	OPEN FORUM: Urban Ecology (2) CHAIR: John Morgan	OPEN FORUM: Behaviour (2) CHAIR: Jennifer Firn	OPEN FORUM: Conse CHAIR: Daniel Falster		OPEN FORUM: Pollution Impacts on Wildlife CHAIR: Don Driscoll
	SPEED TALK: Ariningsun Cinantya, PhD Student, Macquarie University Recovery of horticultural plants from prolonged drought stress: implications for research and practice	Dr Andrew Hoskins, Research Scientist, CSIRO Health and Biosecurity Seasonal foraging habitat selection by the little red flying-fox across Queensland	University	Postdoc, Australian National very actions aren't enough to ecies	Angela Hansen, PhD Candidate, University of Tasmania Lead and other trace elements in five species of Australian duck in Tasmania

	SPEED TALK: Sophie Moore, Master of Research Student, Macquarie University Comparing functional diversity of native and planted tree species in urban centres of Australia	SPEED TALK: Kaylah Del Simone, PhD Candidate, The University of Queensland How limb morphology influences manoeuvrability and speed in Isoodon macrourus	Dr Katherine Moseby, Research Fellow, University of University of New South Wales Adaptive management: the key to successful reintroduction of western quolls in South Australia	Mariel Fulham, The University of Sydney Widespread occurrence of human-associated Escherichia coli in free-ranging sea lion and fur seal pups
	SPEED TALK: Sourav Das, PhD Candidate, Macquarie University Urban living expands estimates of the climate niches of tree species	Matt Bradford, CSIRO The diet of the little red flying fox (Pteropus scapulatus)	SPEED TALK: Clare Bracey, Research Assistant, Monash University A rapid evidence review of the management interventions for Australian woodlands	Dr Michael Bertram, Postdoctoral Researcher, Swedish University of Agricultural Sciences Disruption of male mating strategies in a chemically compromised environment
		Professor Andrew T. D. Bennett, Deakin University Clinical Lateralization of behaviour in parrots	Shannon Treloar, Student, Edith Cowan University Potential for resource competition between co- existing threatened mammals in a fenced reserve in Western Australia	Shannon Taylor, PhD Candidate, The University of Sydney Anthropogenic toxicants in two declining Australian pinniped populations
	16:26-16:39 LIVE QA with all presenters	17:00-17:10 LIVE QA with all presenters	17:00-17:10 LIVE QA with all presenters	17:00-17:10 LIVE QA with all presenters
17:20 – 18:00	CLOSING SESSION Chair: Jodi Price			
	Prizes and Awards Photo competition winners' announcements			

Friday 4 December 2020

9:00 – 15:30	Workshop 8: Writing for Publication Facilitated by Nigel Andrew
	Workshop: Considering Bioacoustics Monitoring? Factors to consider and How to Start Facilitated by Ali Donargo, Dave Roberts, Jeff King
	Workshop: Wildlife Drones Facilitated by Debbie Saunders









