



Thursday, December 5 - Sunday, December 8, 2024

8:00 AM - 11:00 PM	<p>Field Trip: Wilsons Promontory National Park (4-day pre-conference Field Trip). <i>Participation fee \$495 inc GST per person. Depart from MacLeod Railway Station at 10am. Return to MCEC by 6pm on Sunday 8 December</i></p>
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Sunday, December 8, 2024

All sessions are held at the Melbourne Convention and Exhibition Centre (level 1)

9:00 AM - 5:00 PM Meeting Room 106, Level 1, MCEC	<p>Postgraduate Day <i>Participation fee: \$45 inc GST per person. Includes morning tea, lunch and afternoon tea</i></p>
10:30 AM - 4:30 PM Meeting Room 104, Level 1, MCEC	<p>Workshop: A horizon scan of future priorities to support the sustainability of plant-soil ecosystems in Australia Organisers: Christina Birnbaum, Eleonora Egidi, Jeff Powell, Anna Hopkins <i>Participation fee: \$0. This workshop is funded by the Australian Academy of Science Theo Murphy Initiative. Includes morning tea, lunch and afternoon tea</i></p>
11:00 AM - 4:00 PM Meeting Room 108, Level 1, MCEC	<p>ESA Planning Day <i>Includes lunch and light afternoon tea</i> <i>ESA Board of Directors only are invited to participate in this meeting.</i></p>
11:00 AM - 5:00 PM Meeting Room 107, Level 1, MCEC	<p>Workshop / Working Group: Future ecosystems Organisers: Mark Westoby and Daniel Falster <i>Participation fee: \$45 inc GST per person. Includes lunch and light afternoon tea</i></p>
12:00 PM - 5:00 PM Meeting Room 103,	<p>Workshop: How to ensure Indigenous research priorities are effectively included in environmental research Organisers: Teagan Shields and Lah Talbot <i>Participation fee: \$0. Funded by the Resilient Landscapes Hub of NESP. Includes lunch and afternoon tea</i></p>
5:30 PM - 6:30 PM Level 1 Foyer, MCEC	<p>Registration and Welcome Drinks Join us in the Level 1 Foyer at MCEC for a quick drink as you collect your name badge and conference materials and avoid the rush on Monday morning.</p>



Monday, December 9, 2024

0730-1800 ESA 2024 Registration Desk open. Level 1 Foyer

OPENING PLENARY SESSION

ROOM Plenary 3

CHAIR John Morgan

0900-0930 **Welcome to Country and Conference Opening**
 Welcome to Country
 Conference Opening - ESA 2024 Organising Committee Chair, John Morgan
 Conference Welcome

0930-1000 **KEYNOTE PRESENTATION – Professor Emily Nicholson, The University of Melbourne**

CHAIR Stephen van Leeuwen

1000-1030 **ESA INDIGENOUS KEYNOTE PRESENTATION – Joe Morrisson, CEO, Indigenous Land and Sea Corporation**

1030-1100 Morning tea (Monday)

CONCURRENT SESSIONS

1100-1300	SYMPOSIUM (1): From risk to recovery: measuring the status of ecosystems	SYMPOSIUM: Designing for Nature in Cities	SYMPOSIUM: Indigenous ecological knowledge 	SYMPOSIUM: Plant-soil microbial interactions in an era of rapid change: challenges and opportunities	SYMPOSIUM: From Antarctica and Southern Ocean to Australia: Current Ecological Research and Conservation Challenges	OPEN FORUM: Community Ecology	OPEN FORUM: Animal Ecology	SYMPOSIUM (1): Wind energy and wildlife – achieving conservation outcomes in Australia’s era of energy transition	SYMPOSIUM: Forgotten Species: Current Knowledge and Future Directions
ROOM	Plenary 3	Room 105	Room 106	Room 104	Rooms 101/102	Room 103	Rooms 111/112	Room 110	Room 109

CHAIR	Jessica Walsh	Sarah Bekessy	Stephen van Leeuwen	Elizabeth Wandrag	Amy Liu	Francois Brassard	Shaina Russell	Inka Veltheim	Caitlin Forster
1100-1105	<p>Professor David Keith <i>Centre for Ecosystem Science, University of NSW</i> New thinking & new tools for reversing ecosystem degradation and decline</p>	<p>Professor Sarah Bekessy <i>RMIT University</i> Bringing Nature Back Into Cities</p>	<p>Dr Emma Spencer <i>WWF-Australia</i> Caring for Ngunba (Platypus; Ornithorhynchus anatinus) and Healthy Waterways on Djabugay Country in Northern Queensland</p>	<p>Nicola Day <i>Victoria University of Wellington</i> How does fire impact plant-soil feedbacks and soil fungal communities in New Zealand's tussock grasslands?</p>	<p>Dr Aniko Toth <i>UNSW</i> The Antarctic Ecosystem Inventory: A classification, descriptions and map of Antarctica's ice-free lands</p>	<p>Catherine Falco <i>The University of Sydney</i> A continuing conversation: The role of emotions and their belonging in ecology</p>	<p>Dr Shaina Russell <i>Department of Climate Change, Energy, the Environment and Water</i> Understanding 'greenspots' to increase climate change resilience and persistence of threatened biodiversity in arid New South Wales</p>	<p>Dr Andrew Rogers <i>The University of Melbourne</i> Balancing Net Zero Goals: Safeguarding Nature in the Clean Energy Transition</p>	<p>Dr Meghan Shaw <i>Deakin University</i> Bad Reputation: Communication strategies to advocate for native rodents</p>
1105-1110			<p>Gabrielle Brennan <i>Macquarie University</i> Understanding how Dharug Ngurra (Country) responds to a cultural burn using cross-cultural approaches</p>						
1110-1115			<p>A/Prof Liz Cameron <i>The University of Newcastle</i> Country-Guided Design: Embracing Indigenous Knowledge Systems and Community Engagement to Enhance Ecological Impact in the Built Environment</p>						
1115-1130	<p>Dr Jessica Walsh <i>Monash University</i> A proposed framework for measuring ecosystem recovery: Green Status of Ecosystems</p>	<p>Dr Scott Hawken <i>The University of Adelaide</i> Biodiversity Positive Design in Australian Landscape Architecture: Emerging Approaches for Novel Ecologies</p>	<p>Dr Emilie-Jane Ens Associate Professor Macquarie University Reclaiming Dharug biocultural knowledge of edible root grounds</p>	<p>Veronica Iriart <i>University of Pittsburgh</i> Can the right partner mitigate harm? Rhizobial strains vary in mediating effects of herbicide exposure in a plant-rhizobia mutualism</p>	<p>Dr David Clarke Research Fellow Monash University A predictive framework for Antarctic life under climate change: evidence, gaps and hypotheses</p>	<p>Dr Scott McKendrick Research Fellow The University of Melbourne How site and catchment-scale drivers influence instream vegetation</p>	<p>Hannah Riskas <i>La Trobe University</i> How Long Do Ant Workers Live? A Hierarchical Analysis of Field and Laboratory Survival Across Phylogenetic Lineages</p>	<p>Dr Inka Veltheim <i>Arthur Rylah Institute for Environmental Research, DEECA</i> Using tracking data to assess, avoid and minimise wind energy impacts on highly mobile birds</p>	<p>Oli Aylen <i>University of New South Wales/University of Sunshine Coast</i> The unspoken plight of bats; myth, legend, disease, and vilification impedes bat conservation</p>
1130-1145	<p>Dr Jessica Rowland <i>Monash University</i> Measuring ecosystem recovery: details of the</p>	<p>Jon Hazelwood <i>Hassell</i> The Realities of Delivering Nature in the City from a</p>	<p>Dr Tyrone Lavery <i>University of Melbourne</i> Monitoring the threatened wiliji</p>	<p>Md Akhter Hossain <i>Western Sydney University</i></p>	<p>A/Prof Kate Helmstedt <i>Queensland University of Technology</i></p>	<p>Dr Hanlun Liu <i>University of Melbourne</i> Tree interaction networks for</p>	<p>Pippi Lawn <i>University of Tasmania</i> Karst depressions function as wildlife</p>	<p>Dr James Pay <i>University of Tasmania</i> High-frequency GPS tracking of</p>	<p>Professor David Chapple <i>Monash University</i> Inferring the extinction risk of</p>

	Green Status of Ecosystems methods	Landscape Architects perspective	(<i>Petrogale lateralis kimmerleyensis</i>) on Nyikina-Mangala Country (Western Australia)	Impacts of plant diversity on soil multitrophic interactions and consequences for ecosystem multifunctionality	Optimising uncertainty reduction in Antarctic species network models to improve management outcomes	understanding ecosystem functions in global forests	hotspots in a montane grassland	Tasmanian wedge-tailed eagles: spatial prediction of flight modes and turbine collision risk	Data Deficient and Not Evaluated Australian squamates
1145-1150	Jose Rafael Ferrer-Paris <i>University of New South Wales</i> Indicators for assessing risk of ecosystem collapse and ecosystem restoration	Cristina Hernandez Santin <i>RMIT University</i> Biodiversity inclusive design: participatory design for non-human users of place	Clifford Sunfly Looking for and Looking after Kulkurru (Night Parrot)	Tarryn Davies <i>Flinders University</i> Exotic groundcover in a nationally Endangered grassy woodland promotes soil bacterial functions that maintains poor vegetation condition	Dr Matthias Dehling Monash University Global endemism of birds increases from north to south	Dr Baptiste Wijas <i>Cary Institute of Ecosystem Studies</i> Animals as critical drivers of carbon cycling in Australia: a termite case study	Dr Chris Freelance <i>The University of Melbourne</i> Host ecology influences the morphological specialisation of sensory systems in parasitic spider wasps	Dr Mark Miller <i>Monash University</i> Better understanding offshore wind farm collision risk for Procellariiforms	Christopher McCormack <i>Remember The Wild</i> Seeing the Trees for the Forest: Plant awareness, connection with nature, and environmental films
1150-1155				Tarryn Davies <i>Flinders University</i> Exotic groundcover in a nationally Endangered grassy woodland promotes soil bacterial functions that maintains poor vegetation condition	Dr W.P. Amy Liu <i>SAEF, Monash University</i> Cryptic species are a major yet continuingly unresolved Coextinction on potential of ectoparasites and their avian hosts in the Antarctic and the sub-Antarctic contributor to Antarctic biodiversity				
1155-1200				Professor Jeff Powell <i>Western Sydney University</i> Mycorrhizal fungal community dynamics in a eucalypt woodland under current and future atmospheric CO2	Rodolfo Anderson <i>Monash University</i> Continent-wide analysis of moss diversity in Antarctica				
1200-1205	Mishal Gudka <i>The University of Melbourne</i> Leveraging the Red List of Ecosystems for action on coral reefs through the Kunming-Montreal Global Biodiversity Framework	Dr Zoë Metherell <i>University of Melbourne</i> Pattern-writing: a novel method for translating ecological research and co-creating a shared language to design urban sites for biodiversity	Nina Roberts <i>La Trobe University</i> Growing understanding of Murnong: ecological observations for a cross cultural project about Djaara women's food plants		Dr Zach Carter <i>University of Adelaide</i> A structured approach to biosecurity decision making	Dr Francois Brassard <i>Charles Darwin University</i> Macroecological relationships of ant diversity with increasing aridity in Australian tropical savannas: epigaic and	Josh Griffiths <i>EnviroDNA</i> Going with the flows? Predicting habitat suitability and key environmental variables influencing platypus populations	Clare McCutcheon <i>Biosis Pty Ltd</i> Seabird Survey Design And Collision Risk Modelling To Inform Australian Offshore Wind Energy Projects	Dr Leanda Mason <i>Edith Cowan University</i> EDJI (equitable, diverse, justice-seeking and inclusive) ecology: who? what? why? where? how?
1205-1210		Alison Haynes							

		<i>University of Wollongong</i> The urban light fantastic (or not?)				subterranean ants show opposite responses			
1210-1215		Beth Kiss <i>RMIT University</i> Our homes can be part of the solution to the biodiversity crisis		Meike Katharina Heuck <i>Western Sydney University</i> Elevated CO2 concentrations play a major role in influencing the functionality of AM fungal communities in agroecosystems					
1215-1220	Dr Tina Parkhurst Research Fellow The University of Melbourne An ecosystems approach for nature related corporate disclosures	Fiona Hoegh-Guldberg <i>RMIT, Icon Science</i> Designing for Nature and Water: a framework for accountable biodiversity and water gains in urban planning	Jessica Sabatino <i>Torres Strait Regional Authority</i> Biodiversity surveys on Badu Island, Torres Strait - combining Traditional Ecological Knowledge and Western science		Dr Isabelle Onley <i>The University of Adelaide</i> Assessing and managing the ongoing risk of non-native invertebrate detections in the Antarctic region	Rachel Mason <i>Deakin University</i> What are the ecosystem implications of apex predator suppression in semi-arid, south-eastern Australia?	Stacey Harwood <i>Deakin University</i> So where the bloody hell are you? Koala occurrence in a complex landscape	Mervyn Mason Dogwood Ecology Some thoughts on the utility of CRM in impact assessment and management – are we being blinded by the science?	Eav Brennan <i>Eav Brennan Art</i> Characterising trapdoor spiders
1220-1225									Dr Diana Kuchinke <i>Federation University</i> The Laughing Kookaburra is in decline. What can we do to reverse the trend of declining 'common' birds?
1225-1230				Shawn Peddle <i>Flinders University</i> Soil translocation method impacts on the establishment of microbial communities					Martin Iglesias <i>Monash University</i> Threats to Australian squamates: A systematic and spatially explicit method to enhance species assessments
1230-1235	Dr Javiera Olivares-Rojas <i>Monash University / University of Queensland</i> Assessing Recovery and Conservation Impact: Applying the IUCN Green Status of Ecosystems to Cumberland Plain Woodland	Dr Maria Ignatieva <i>The University of Western Australia</i> Urban designed nature: searching for biodiverse and waterwise solutions for West Australian lawns	Dr Rachel Paltridge <i>Indigenous Desert Alliance</i> Mulyamiji March: a national monitoring program for a culturally significant reptile		Naomi Monk <i>Monash University</i> The importance of environmental and historical predictors in diversity	Carmen Laidlaw <i>University of New England</i> Ecosystem function in Upland Wetlands, a Threatened Ecological Community of the New England Tablelands	Justine Ohlrich <i>University of Queensland</i> Species interactions and environmental influences in freshwater ecosystems: a case study on the platypus	Dr Elizabeth Stark <i>Symbolix</i> Optimising pre-construction surveys by understanding collision risk data	Dr Caitlyn Forster <i>The University of Sydney</i> DISCUSSION - Forgotten Species: Current Knowledge and Future Directions
1235-1240									
1240-1245				Luke Florence <i>La Trobe University</i> Australian forest-tree symbioses: Patterns of diversity and niche differentiation					

1245-1250	Jadzia Livingston <i>Monash University</i> Assessing the Recovery Status of the Southern and Eastern Australian Oyster Reef	Alannah Alley Freeman <i>ACT Government / Australian National University</i> Mapping ecological connectivity in urban landscapes for conservation planning	Dr Alison Lullfitz <i>University of Western Australia</i> What we've learnt from Walking Together	Riley Hodgson <i>Flinders University</i> Increasing aridity strengthens the core bacterial rhizosphere associations in the pan-palaeotropical C4 grass, <i>Themeda triandra</i>	Samuel Beale <i>La Trobe University</i> Functional redundancy and intraspecific trait variation in a sub-Antarctic flora	Lisa Buche <i>University of Melbourne</i> Sparse structures of positive and negative weak interactions drive plant species performance in highly diverse communities	Dr Jaimie Hopkins <i>Office of Nature Conservation, ACT Government</i> Yuma Gula: Rediscovering the Koala on Ngunnawal Country in the Australian Capital Territory	(1245-1300) Dr Ailsa Kerswell <i>2rog Consulting</i> A suggested approach to quantifying and managing potential cumulative effects of wind farm development on birds	
1250-1255				Erandi Herath <i>The University of Melbourne</i> Drought and Salt Tolerance of Bacteria and Fungi in Selected Commercial Vineyard Soils in Northwest Victoria		Dr Kita Ashman <i>WWF Australia</i> Documenting the conservation benefits of policy decisions: cessation of logging benefits 34 threatened species in Victoria, Australia	Dr Timothy Jackson <i>The University of Melbourne</i> On modelling the ecomolecular organising and reorganising of organisms	(1300-1315) Dr Maggie Watson <i>Natural History Museum, UK / RPS Consulting</i> Collaboration in action—RMEBS in Victoria	

1300-1400 Lunch (Monday)

CONCURRENT SESSIONS

1400-1530	SYMPOSIUM (2): From risk to recovery: measuring the status of ecosystems	SYMPOSIUM: Nature in Cities (1)	SYMPOSIUM (1): Ecology and policy in the Murray-Darling Basin	SYMPOSIUM: Fundamental and applied mycology: a global nexus	OPEN FORUM: Cool Threatened Species	OPEN FORUM: Methods in Ecology (1)	OPEN FORUM: Restoration Ecology (1)	SYMPOSIUM (2): Wind energy and wildlife – achieving conservation outcomes in Australia's era of energy transition	SYMPOSIUM (1): Introducing the Resist-Accept-Direct adaptive-management framework and exploring its applications
ROOM	Plenary 3	Room 105	Room 106	Room 104	Rooms 101/102	Room 103	Rooms 111/112	Room 110	Room 109
CHAIR	Emily Nicholson	Caragh Threlfall	Jarod Lyon	Camille Truong		Courtney Melton		Inka Veltheim	Callum Bryant
1400-1415	Dr Justine Shaw <i>Queensland University of Technology</i> Sub-Antarctic conservation: what's the science telling us	Professor Dieter Hochuli <i>The University of Sydney</i> Fanfare for the Common Species: the role of	Nikki Gemmill <i>DEECA</i> Policy meets Science: The Victorian approach to sustaining living waterways	Dr Sally Fryar <i>Flinders University</i> Freshwater fungi in Australia	Yennifer Longo <i>La Trobe University</i> Shipwrecked by Sterility? An Investigation of Pollen Viability in a Critically	Andrea Bueno Pedraz <i>La Trobe University</i> Validating Non-Invasive Techniques For Measuring Faecal	Mariah Sampson <i>Deakin University</i> A BACI approach to studying the effects of willow removal and riparian	Dr Pia Lentini <i>Arthur Rylah Institute For Environmental Research (DEECA)</i> Systematic review of collision impacts	Dr Gregor Schuurman <i>US National Park Service Climate Change Response Program</i>

		undervalued parts of nature in cities in biodiversity conservation			Endangered Banksia	Glucocorticoid Metabolites: A Case Study With Fat-Tailed Dunnarts	revegetation on low order streams in southern Victoria	and associated mitigations for wind energy, and how this applies to the Victorian context	The RAD framework – what it is, where it comes from, and what we can learn from its application in the United States	
1415-1430	Dr Chris Jones <i>Arthur Rylah Institute for Environmental Research</i> From many to one: Aligning vegetation survey methods within and between major monitoring programs	Dr Jacinta Humphrey <i>RMIT University</i> Living with noisy neighbours: What influences the value of urban sites for forest birds?	Professor Richard Kingsford <i>UNSW Sydney</i> Is adaptive management of water for the environment a pipe dream?	Dr Sarah Sapsford <i>Murdoch University</i> Can we predict the future? Using a multidisciplinary approach to project the success of a species in a changing climate	Dr Samantha Wallace <i>The University of Newcastle</i> Is this habitat occupied? Determining occupancy of a threatened frog across a mined landscape.	Dr Carly Campbell <i>Queensland University of Technology</i> A single drone as two observers: Increasing wildlife detection availability in complex environments using repeated drone flights with offset paths	Patrick Giumelli <i>WWF-Australia</i> Establishment of platypuses in their former range in the Royal National Park, Sydney	Dr Lindy Lumsden <i>Arthur Rylah Institute For Environmental Research, DEECA</i> Defining key bat and bird species of concern, quantifying collision impacts and developing guidelines for Victorian onshore wind farms	Dr Mark Norman <i>Parks Victoria</i> Application of the RAD (Resist-Accept-Direct) framework to Victoria's protected areas estate and the emergency interventions required under a rapidly-changing climate	
1430-1435	Dr Megan McNellie <i>NSW DCCEEW</i> Upscaling – moving from on-ground observations to landscape-scaled indicators to report on the status of vegetation integrity	Katherine Horsfall <i>University of Melbourne</i> Closing the loop and enhancing biodiversity: new opportunities to return native wildflowers to urban landscapes using recycled construction wastes	Dr Francis Chiew <i>CSIRO</i> Climate change and hydrology impacting ecosystems in the Murray-Darling Basin	Dr John Ramana <i>University of Canterbury</i> Trait complementarity and functional trade-offs in plant-mycorrhizal symbioses	Luke Bonifacio <i>Monash University</i> Location, location, location: clarifying the distribution and conservation status of the Endangered Perth slider, <i>Lerista lineata</i>	Saoirse Kelleher <i>The University of Melbourne</i> Influence of covariate selection strategies on dynamic occupancy model performance	Giselle Owens <i>Australian National University</i> The lifespan of tree hollows in Eucalyptus forest	Alex Jackson <i>Symbolix Pty Ltd</i> Which bats collide? A summary of an Australian-wide meta-analysis on bat collisions at wind farms	Dr Claire Mason <i>CSIRO</i> The balance of theory and practice when providing guidance for climate adaptation for biodiversity conservation	
1435-1440										Dr Sally Kenny <i>Arthur Rylah Institute For Environmental Research / DEECA</i> Survivorship in the nationally threatened <i>Diuris fragrantissima</i> (Sunshine <i>Diuris</i>)
1440-1445										Dr Courtney Melton <i>Bush Heritage Australia</i> When, and for how long, should we record to build

						robust acoustic datasets for woodland birds?					
1445-1500	Dr Uffe Nielsen <i>Hawkesbury Institute for the Environment, Western Sydney University</i> Incorporating soil biological and functional attributes in ecological restoration	Anamika Gautam <i>Salim Ali Centre for Ornithology and Natural History</i> Effect of Urbanization on bird community structure and composition in the Indo-Gangetic Plains of India	Dr Jarod Lyon <i>Arthur Rylah Institute for Environmental Research DEECA</i> The Future of Freshwater Fish in the Murray-Darling Basin: Challenges and Opportunities	Emily McIntyre <i>The University of Melbourne</i> Fine Dining with an Endangered Marsupial: 23 Years of Truffle-Like Fungi Consumption by the Long-Footed Potoroo	Dr Geoffrey Heard Science Advisor, TSX Terrestrial Ecosystem Research Network, University of Queensland A preliminary Threatened Frog Index for Australia	Dr Courtney Melton <i>Bush Heritage Australia</i> When, and for how long, should we record to build robust acoustic datasets for woodland birds?	Dr Noushka Reiter <i>Royal Botanic Gardens Victoria</i> Restoring critically endangered grassland orchids by selecting sites based on pollinator availability and co-planting to improve pollination	Dr Stevie Florent <i>University of Canterbury</i> Temporal patterns of bat mortality at wind farms in Australia: curtailment recommendations for industry	Isobel Bender <i>Australian National University</i> Receptiveness to RAD management options – case study on Snow Gum dieback in the Australian Alps		
1500-1505	Dr Sarah Luxton <i>CSIRO</i> State and transition models as a framework for leading indicators of restoration trajectories to support operationalisation of a nature-positive economy	Dr Julian Brown <i>The University of Melbourne</i> Conservation translocations in urban environments: state of the knowledge and future directions	Chrissi Charles <i>Ecofutures (Alluvium Group)</i> What factors are limiting aquatic vegetation growth across two of The Living Murray icon sites?	Rebecca Quah <i>Edith Cowan University</i> Gilbert's potoroo and the fun guys: Co-existing mycophagous mammals as indicators of resource availability	Jariya Chanachai Macquarie University How well do we understand the geographic range size of Australia's frog species?	Dr Jamie Burton The University of Melbourne Do mechanical fuel treatments improve biodiversity in shrub-encroached eucalypt woodlands?	Talitha Moyle Department For Environment And Water Trial release of Red-tailed Phascogale into the wild South Australia	Dr Matt Bruce <i>Arthur Rylah Institute For Environmental Research / DEECA</i> Using structured expert elicitation to explore the effectiveness of windfarm mitigations for bat and bird species of concern	Carla Alexandra <i>Australian National University</i> Anticipating ecological transformation: foresight capacities and knowledge for upstream engagement using RAD		
1505-1510		Mareshell Wauchope <i>University of Sydney</i> Urban rewilding – a guide to species selection								Anne Ibbotson <i>The University of Newcastle</i> Using biomarkers to monitor conservation actions for endangered amphibians	Bridget Roberts <i>Bush Heritage Australia</i> How to find reptiles: a comparison of survey techniques
1510-1515										Sarah Agterhuis <i>Zoos Victoria</i> A novel approach to searching for the critically endangered Orange-bellied Parrot	Olivia Dove <i>University of Tasmania</i> TurtleSAT: Empowering Citizen Scientists for Real-Time Conservation
1515-1520	Alex Taylor <i>Flinders University</i> Sounds of the underground reflect	Genevieve Heggarty <i>The University of Sydney</i>	James Kellerman <i>Operations and Community Mallee CMA</i>	Aviya Naccarella <i>Deakin University</i> Fungi - the missing puzzle piece: What	Thea O'Loughlin <i>ACT Parks and Conservation Service</i>	Iain Campbell <i>University of New South Wales</i>	Dr Rachel Ladd Wildlife Ecologist Australian Wildlife Conservancy	David Rogers <i>Goldwind Australia</i> Lessons from Installation of	Dr Amber Datta <i>Arizona State University</i>		

	soil biodiversity dynamics across a grassy woodland restoration chronosequence	Biotic interactions limit the effectiveness of habitat restoration to support iconic avian species in urban ecosystem	Managing floodplains without floods	role can mycophagous mammals play in restoring ecosystem function?	Models for managers: case study using Golden Sun Moth	The new Habitats of the World Classification for Australia. A Rosetta Stone for botanists, ecologists and conservationists	Insights from a Red-tailed Phascogale reintroduction to Mallee Cliffs National Park	IdentiFlight at Cattle Hill Wind Farm, Tasmania	One shock, many stories: articulating conflicting visions for the Great Barrier Reef after mass bleaching using RAD and narrative analysis
1520-1525	Gabriela Sotelo Castan <i>Southern Cross University</i> The effectiveness of current restoration methods in restoring the floristic diversity of Open Forest Koala habitat	Claire Kenefick <i>The University of Melbourne</i> Recycled construction industry waste can support woody plant growth for sustainable urban greening		Hayden De Villiers <i>Australian Wildlife Conservancy</i> The impact of the weed species, Lantana camara, on Northern Bettongs on the Mount Carbine Tableland	Erin Bok <i>University of Tasmania</i> Forty-spotted pardalote and manna gum: Understanding variation in habitat quality to improve the conservation of an endangered bird				
1525-1530		Professor Michelle Leishman <i>Macquarie University</i> Rescuing plants from extinction - new roles for conservation		Ema Corro <i>Mycommunity</i> Applied Mycology Forest fungal community response to severe storm damage	Wayne Kinrade <i>Friends of the Eltham Copper Butterfly</i> Adaptive Management and Conservation Strategies for the Eltham Copper Butterfly (<i>Paralucia pyrodiscus lucida</i>)				
1530-1600	Afternoon tea (Monday)								
CONCURRENT SESSIONS									
1600-1745	SYMPOSIUM (1): Nature Positive 1: the importance of robust ecological evidence and rigorous science	SYMPOSIUM: Nature in Cities (2)	SYMPOSIUM (2): Ecology and policy in the Murray-Darling Basin	SYMPOSIUM: Phytophthora Dieback: Beyond immediate impacts Convenor: Mia Townsend, Dieback Working Group Inc.	OPEN FORUM: Conservation Planning (1)	OPEN FORUM: Methods in Ecology (2)	OPEN FORUM: Restoration Ecology (2)	OPEN FORUM: Invasive Species	SYMPOSIUM (2): Exploring Resist-Accept-Direct-type case studies for conservation intervention, planning, and action
ROOM	Plenary 3	Room 105	Room 106	Room 104	Rooms 101/102	Room 103	Rooms 111/112	Room 110	Room 109

CHAIR	Jeremy Simmonds	Melanie Bishop	Jian Yen	Mia Townsend		Libby Rumpff	Lyndsey Vivian	Claire Foster	Callum Bryant
1600-1615	Billee McGinley <i>Charles Darwin University</i> Strategic regional spatial planning for ecological sustainable development of utility-scale solar and wind energy in the Northern Territory	Professor Kirsten Parris <i>The University of Melbourne</i> Bringing amphibians back into cities	Zoe Jellie <i>GHD Pty Ltd</i> Benefits versus impacts: the process of approving environmental projects - VMFRP Case Study, EES Central (Hattah Lakes North and Belsar-Yungera)	Mia Townsend <i>Dieback Working Group</i> Dieback Unearthed: Phytophthora Education in the Fitzgerald Biosphere	Dr Rebecca Morris <i>The University of Melbourne</i> A blueprint for overcoming barriers to the use of nature-based coastal protection in Australia	Jules Farquhar <i>Monash University</i> How to 'trick' an entire city into helping you find snakes: leveraging snake-callout data for research	Laney Callahan <i>Deakin University</i> Using drones for guiding seagrass restoration planting on a fine scale	Professor Michael Letnic <i>UNSW</i> Freshwater crocodile populations collapsed following the invasion of cane toads and show no sign of recovery 19 years later	Dr Mathew Berg <i>Parks Victoria</i> Using climate scenarios to support RAD-informed conservation action planning at Parks Victoria
1615-1630	Dr Jim Radford <i>La Trobe University</i> Farming for the Future: Evidence that on-farm natural capital benefits farm business performance	Dr Amy Hahs <i>The University of Melbourne</i> When urbanisation drives species specialisation, what are the implications for supporting nature in our cities?	Zoe Ford <i>UNSW Sydney</i> Quantifying power: mapping stakeholder power dynamics in collaborative conservation approaches in the Murray Darling Basin	Professor Mark Garkaklis <i>Murdoch University</i> The Australian Government Roadmap for National (APVMA) Registration of Phosphite for the Management of <i>Phytophthora cinnamomi</i> in Native Vegetation	Dr Kate Giljohann <i>CSIRO</i> Applications of national habitat condition information in policy and management - the Habitat Condition Assessment System	Dr Libby Rumpff <i>University of Melbourne</i> Same data, different analysts: variation in effect sizes due to analytical decisions in ecology and evolutionary biology	Dr Patrick Finnerty <i>The University of Sydney</i> The future of rewilding in Australia – moving beyond the fence	Rebecca Stone <i>University of New England</i> Hopportunity Knocks: European hares make themselves at home in anthropogenically cleared areas within a National Park	Dr Tom Le Breton <i>UNSW</i> A framework for assessing threat mitigation programs via a case study on hazard reduction burning guideline for plants
1630-1635	Anthony Romano <i>The University of Melbourne</i> To heal Country we must know Country: the loss of woodlands and rethinking conservation for healthy Country	Milly Caley <i>UNSW</i> The impacts of artificial light at night on urbanised coastal habitats	Katie Howard <i>Arthur Rylah Institute</i> When is flooding enough? Using long-term data to assess how water management affects recruitment and survivorship of three turtle species	Dr Shanika Harshani <i>Murdoch University</i> Can ecological functions be returned to <i>Phytophthora cinnamomi</i> infested sites? Exploring the potential for seed-based rehabilitation	A/Prof Hedley Grantham <i>Bush Heritage</i> Progress of Australia's political jurisdictions aligning the identification of threatened ecological communities with each other and international systems	Dr Dax Kellie <i>Atlas of Living Australia</i> Will your code run again? Tips for making code reproducible in R	Dr Michael Franklin <i>Western Sydney University</i> Effectiveness of management interventions applied to restore degraded eucalypt woodlands: a meta-analysis	Dr Jacqui Pocklington <i>Deakin University</i> Management of the marine pest <i>Undaria pinnatifida</i> at a high value Marine Protected Area	Dr John Morgan <i>La Trobe University</i> Out of the shadows: management intervention to reverse climate change induced plant size-asymmetry impacts in snowpatch herbfields
1635-1640					Dr Will Sowersby <i>Department of Energy,</i>			Binod Kunwar <i>Jeju National University</i>	




					<i>Environment and Climate Action</i> A new approach to monitoring and reporting on Victoria's biodiversity			Predicting the potential distribution of a rodent pest, brown rat (<i>Rattus norvegicus</i>) under climate and landcover changes in South Korea	
1640-1645					Dr Melissa Hatty <i>Monash University</i> Safeguarding Australia's Great Southern Reef			Dr Pat Taggart <i>Bush Heritage Australia</i> Do land managers apply best-practice integrated pest management: a case study of the European rabbit	
1645-1650	Patrick Kennedy <i>The University of Melbourne</i> The decline of <i>Allocasuarina</i> spp. woodlands in South-East Australia following British Invasion and the loss of Cultural Care for Country	Joseph McCormick <i>The University of Sydney</i> Quantifying the seasonal production and distribution of nectar for urban-dwelling pollinators	Sophie Hewitt <i>The University of New South Wales</i> Drivers of waterbird breeding in the Macquarie Marshes – implications for water management	Dr Barbara Wilson <i>Deakin University</i> Protecting and conserving threatened species, plant and animal diversity from <i>Phytophthora</i> dieback across the Otways – Wild Otways Initiative Outcomes	Caitlin Dagg <i>Hawkesbury Institute for the Environment - Western Sydney University</i> Landscape-Scale Analysis of Remnant Vegetation in the Cumberland Plain for Conservation Planning	Monique Lush <i>University of NSW</i> Developing Quantitative Metrics of Platypus Resource Availability: A Case Study on the Platypus Population at Tidbinbilla Nature Reserve	Dr Lyndsey Vivian <i>Arthur Rylah Institute For Environmental Research</i> Resilience of vegetation in long-dry semi-arid floodplains of the southern Murray-Darling Basin and implications for floodplain restoration	Sally Fuik-Burgemeestre <i>Deakin University</i> Yay or Neigh? Do feral horses influence the abundance, habitat use and movement of small mammals in subalpine Australia?	Dr Lesley Gibson <i>Department of Biodiversity, Conservation and Attractions</i> Restoring Dirk Hartog Island's lost fauna – past the halfway mark
1650-1655									
1655-1700									
1700-1705	Dr Vanessa Gorecki <i>University of Southern Queensland</i> Towards nature positive: How robust ecological evidence is collected to inform management actions for threatened species in the Brigalow Belt	Ella Byrne <i>The University of Melbourne</i> Bird responses to billabong flooding	Dr Kay Morris <i>Arthur Rylah Institute for Environmental Research</i> The influence of environmental water and irrigation flows on bank vegetation in a regulated river in south-eastern Australia	Garnet Gregory <i>Dieback Working Group</i> Dieback Free Gravel - Innovations to address an ongoing challenge	Professor Jenny Davis <i>Charles Darwin University</i> Increasing the understanding of groundwater resources and groundwater dependent ecosystems in northern Australia	Steven Kambouris <i>The University of Melbourne</i> Computationally reproducing results from meta-analyses in ecology and evolutionary biology using shared code and data	Catriona Chauval <i>SMEC Australia</i> Integrating the knowledge of Traditional Custodians, ecologists and a water authority for ecological restoration of a Lignum Swamp: Porrongitj Karrong	Dr Claire Foster <i>Australian National University</i> Effects of large herbivore exclusion on forest ecosystem properties	Dr Samantha Travers <i>NSW Department of Climate Change, Energy, the Environment and Water</i> Ghosts of forestry past persist in River red gum forest understory plant composition
1705-1710		Dr Marie Keatley <i>RMIT University</i> The flowering of <i>Hakeas</i> in an urban environment							
1710-1715		Lavinia Hsiao-Hsuan Chu <i>The University of Melbourne</i>							

		A win-win situation: Woody plants with greater resprouting vigour after coppicing can recover lost shoot biomass							
1715-1720	Anna O'Brien <i>Biodiversity Offsets Victoria</i> Poor estimates of biodiversity gains from offsetting create blind spots in Victoria's No Net Loss policy	Harry Rust <i>Faunatech</i> Insectivorous microbats demonstrate resilience to urbanisation in a range of urban spaces across Adelaide, South Australia	Christina Hunter <i>La Trobe University</i> Protecting turtle nests: new ways to keep foxes at bay	Shawn Colbung <i>Binalup Aboriginal Corporation</i> Integrating Traditional Knowledge systems and the impact of Dieback on Aboriginal Cultural Heritage values in the South Coast region, WA	Chuanji Yong <i>University of Western Australia</i> Decision support tool for threatened species management on Norfolk Island - Bioeconomic model	Dr Matthew Gale <i>Australian National University</i> Quantifying uncertainty in site-trained predictions of vegetation condition	Joe Greet <i>The University of Melbourne</i> Restoring urban billabongs in partnership with Wurundjeri Woiwurrung Traditional Owners	Professor Alexander Mikheyev <i>Australian National University</i> Honey bees drive viral spillover into other arthropods	Dr Patrick Baker <i>University of Melbourne</i> Ecological thinning in box-ironbark woodlands: 20 years on
1720-1725	Dr Chris Pocknee <i>Biolinks Alliance</i> Spring Plains Watershed Repair - a novel approach to restoring a degraded forest								
1725-1730	Bailey Raats <i>Deakin University</i> The socio-spatial ecology of southern Brush-tailed Rock-wallabies								
1730-1735	Dr Karel Mokany <i>CSIRO</i> Assessing the direct impacts of organisations on biodiversity	Dr Caragh Threlfall <i>Macquarie University</i> Life in the city - effects of urban environments on insectivorous bat communities			(1730-1745) Dr Yung En Chee <i>The University of Melbourne</i> Healthy Waterways Strategy mid-term review: modelling updated climate projections to understand risks and opportunities in the face of climate change	Lorenzo Ricolfi UNSW Sydney Trophic Magnification of PFAS in Food Webs: A Systematic Review and Meta-Analysis		(1730-1745) Professor Michael McCarthy Professor The University of Melbourne Informing invasive species monitoring and management using a partially observable Markov decision process framework	
1735-1740	Dr Roshan Sharma <i>Deakin University</i> The difference made by private protected areas	Tara Mckenzie <i>University of Adelaide</i> Parklands possum plight: Insights into urban possum densities and the declining health of							

		possum populations in the Adelaide Parklands							
1745-1945	<p>Barbara Rice Memorial Poster Session - Ground Floor Foyer and Level 1 Foyers. <i>Using ESA's famous "sticky dot" system, take time to speak with poster presenters, and be rewarded with a coloured 'sticky dot'. Earn 2 sticky dots and redeem these dots for an alcoholic or non-alcoholic beverage.</i></p>								
1930-2100	<p>Movie - Follow the Rain – Room 109 <i>Tickets: \$5 per person. An exploration of the world of fungi like you have never seen it - combining a decade of research, passion, photographer Stephen Axford and filmmaker Catherine Marciniak's exquisite fungi time-lapses and footage, and the most incredible fungi stories.</i></p>								



Tuesday, December 10, 2024



0730-1800		ESA 2024 Registration Desk open. Level 1 Foyer							
TUESDAY MORNING PLENARY SESSION									
ROOM	Plenary 3								
CHAIR									
0900-0930	KEYNOTE PRESENTATION - Dr Kylie Soanes, University of Melbourne								
0930-1000	KEYNOTE PRESENTATION - ESA ECOLOGICAL IMPACT AWARD PRESENTATION								
1000-1030		Morning tea (Tuesday)							
CONCURRENT SESSIONS									
1030-1230	<p>SYMPOSIUM (2): Nature Positive 1: the importance of robust ecological evidence and rigorous science</p>	<p>SYMPOSIUM: Planning for Nature in Cities</p>	<p>SYMPOSIUM (1): Practitioner Engagement: Ecological Connections between Practitioners and Researchers</p>	<p>SYMPOSIUM: Forests against the Machine: facilitating persistence and conservation in dieback-affected native forests and woodlands</p> 	<p>OPEN FORUM: Plant Ecology</p>	<p>OPEN FORUM: Fire ecology + indigenous wetland restoration</p>	<p>OPEN FORUM: Plant Traits</p>	<p>SYMPOSIUM (1): Conservation management of wildlife populations guided by genetics</p> 	<p>SYMPOSIUM: Trends in invasion ecology and biosecurity measures</p> 
ROOM	Plenary 3	Room 105	Room 106	Room 104	Rooms 101/102	Room 103	Rooms 111/112	Room 110	Room 109
CHAIR	Ailsa Kerswell		Samantha Lloyd	Gunnar Keppel / Chloe Bentze	Susanna Venn	Sarah McColl-Gausden	Julian Schrader	Alexandra Pavlova	Irene Martin-Fores
1030-1045	Dr Jeremy Simmonds <i>2rog Consulting</i>	Dr Dave Kendal <i>Future In Nature</i> An Assessment of urban Nature-based	Adam Miller <i>Friends of the Forgotten Woodlands Inc</i>	Dr Joseph Fontaine <i>Murdoch University</i>	Prof Richard Williams <i>La Trobe University</i>	Jess Overton <i>Department of Biodiversity,</i>	Aleisha Knack <i>CSIRO</i> Interannual variability in	Dr Alexandra Pavlova <i>Monash University</i>	Dr Erin Hill <i>CSIRO</i> Weed surveillance using environmental

	Achieving nature positive outcomes needs evidence-based actions	Solutions in the Oceania region	John Morgan <i>La Trobe University</i> Friends of the Forgotten Woodlands: Victorian Volcanic Plains Woodland Recovery	Causes of eucalypt dieback and decline in southern Australia	Floristic changes in alpine vegetation: insights from 78 years of measurements from the Bogong High Plains, Australian Alps	<i>Conservation and Attractions</i> Some like it hot: Seed thermal threshold variation in obligate seeding <i>Acacia pulchella</i> along a climate gradient	flowering traits of <i>Leptospermum scoparium</i> and interactions with climate	What is genetic management and why and how should environmental managers apply it to restore biodiversity?	DNA collected from honeybee (<i>Apis mellifera</i>) hives; what are the plant density and distance limitations?
1045-1100	Hannah Thomas <i>University of Queensland</i> The value of Queensland's regrowth forest and woodlands for threatened species	Dr Judy Bush <i>University of Melbourne</i> Sustaining collaborative governance for urban ecosystem restoration	Dr Perpetua Turner <i>Ecological Society of Australia</i> Practical bushfire management on private land: Red Hot Tips	Ruiling Lu <i>Western Sydney University</i> Patterns and drivers of tree mortality in Australian forests in a changing climate	Dr Gemma Hoyle <i>National Seed Bank, Australian National Botanic Gardens</i> Native Violets: seed biology and ecology for improved conservation outcomes	Derek Johnson <i>Australian Koala Foundation</i> Annual post-fire recovery of a South-east Queensland koala population and their habitat: Field surveys and Sentinel-2 assessed regional forest recovery	Chongzhe Zhang <i>Western Sydney University</i> Coordinated plant-nematode ecological trait dimensions shape soil carbon pools and fluxes	Dr Zeb Tonkin <i>Arthur Rylah Institute For Environmental Research</i> From concept to on-ground action: Integrating evolutionary principles into management result in recovery outcomes for an endangered freshwater fish	Eliane McCarthy <i>The University of Sydney</i> Ecological Impacts and Adaptive Responses of Invasive Deer to Landscape-Scale Aerial Culling in the Australian Alps
1100-1105	Lucy Healing <i>2rog Consulting</i> Supporting nature positive claims with evidence – a case study	Dr Holly Kirk <i>RMIT University</i> Rethinking environmental impact assessment for nature positive urban development	Arianne Allen <i>QFD</i> Vegetation structural attribute field surveys play an important role in bushfire prone area mapping for land managers and planners	Weerach Charentantanakul <i>Fenner School of Environment and Society, ANU</i> Analysing snow-gum dieback in Australian subalpine woodlands through satellite imagery and machine learning	Dr Susanna Venn <i>Deakin University</i> Soil seed banks reveal the legacy of shifting plant assemblages in late-lying alpine snowpatch communities	Marcus Greenwood <i>UNSW Sydney</i> Distribution shifts of plants with post-fire recruitment	Dr Sonya Geange <i>University of Bergen</i> Bridging the gap between ecological insights and land surface models: integrating dwarf-shrub plant functional traits to better represent high-latitude ecosystems	Dr Susan Hoebee <i>La Trobe University</i> Clear local and regional genomic structuring of populations of the Tiny <i>Spyridium (Spyridium cinereum)</i>	Karen Zeng <i>UNSW Sydney</i> When does enemy release occur? A literature synthesis
1105-1110					Professor Angela Moles <i>UNSW Sydney</i> The rough end of the stick: is there more mistletoe on roughbark Eucalypts than on smoothbarks?	Shawn Scott <i>University of South Australia</i> Frogs, fire, and fungus: does fire age influence chytrid prevalence and spore burden in Bibron's toadlet in South Australia			Emmet Mulcahy <i>Deakin University</i> Public perceptions of invasive species management
1110-1115					Susanna Bryceson <i>La Trobe University</i> Did dappled eucalypt shade	Dr Emily Hoffmann <i>The University of Western Australia</i>			Dylan Geraghty <i>Macquarie University</i> Host-specific adaptation despite ongoing gene flow

					open the door for Themeda triandra to spread through Australian woodlands?	Impacts of wildfire on the sunset frog, an Endangered peatland endemic			between populations of a native soapberry bug
1115-1120	Dr Hannah Fraser <i>University of Queensland</i> Faunal community condition metrics to help achieve nature positive	Kai Lane <i>Ecology and Restoration Australia</i> Habitat Warriors: Helping schoolchildren to create a living classroom	Jenny Huang <i>DEECA</i> Modelling fauna fire responses from biodiversity atlas data to inform bushfire risk management planning	Donna Fitzgerald <i>University of South Australia</i> Monitoring dieback using remote sensing: a case study on the vulnerable population eucalyptus macroryhncha	Courtney Taylor <i>The University of Melbourne</i> Variability of plant-plant interaction networks	Dr Matt Chick <i>Department of Biodiversity, Conservation and Attractions</i> Relationships between fire interval and severity and the seed ecology of threatened flora species in fragmented and intact ecosystems	Dr Julian Schrader <i>Macquarie University</i> Equilibrium island biogeography on the basis of traits	Chloe Frick <i>University of Adelaide</i> Breeding or Bust: Brush-Tailed Bettong (Bettongia penicillata) Source Population Impacts on Translocation Success	Professor Jaco Le Roux <i>Macquarie University</i> Native herbivores rapidly evolve to utilise invasive host plants
1120-1125									
1125-1130									
1130-1135	Clare Bracey <i>Monash University</i> Effectiveness of privately protected areas for the temperate woodland bird community	Melissa Snape <i>Office of Nature Conservation</i> From go to whoa... a multi-step approach to navigating the complex task of strategic conservation planning in an urban context	Irena Cassettari <i>Department of Energy, Environment and Climate Action (DEECA)</i> Would you like to be an ember? Opportunities for collaboration and integrating science into decision making for bushfire management planning	Aaranya Gayathri Sekaran <i>Western Sydney University</i> Mass Mortality in Mulga of the Australian Arid Zone: Patterns, Processes, and Predictions	Dr Ryan Phillips <i>La Trobe University</i> Using ecological data to understand unexpected evolutionary transitions in deceptive orchids	Dr Natasha Robinson <i>NSW DCCEEW</i> Contrasting the influence of fire extent and severity on the occupancy of the Greater Glider and Yellow-bellied Glider	Wing Man Siu <i>The University of Melbourne</i> Exploring below-ground: The Impact of Specific Root Length on Community Dynamics	John Black <i>The University of Melbourne</i> Bandicoots and bioinformatics: Using a threatened species to improve the way we measure population mixing	Dr James Camac <i>The University of Melbourne</i> Biosecurity Commons – Online, Open-Access &
1135-1140									
1140-1145									
		Catalina Mardones <i>RMIT University</i> Exploring the Characteristics of ‘Nature-Dose’ Leading to Positive Impacts on Well-being in Diverse Global Contexts							
		Dr Marie Dade <i>The University of Melbourne</i> Shifts in local perceptions of urban trees post-Covid-19 restrictions							

1145-1150	Dr Michelle Gibson <i>The University of Melbourne</i> Conservation action effectiveness for woodland birds	Dr Natasha Pauli <i>University of Western Australia</i> Greener street verges to enhance urban nature and resilience: Drivers for public-private collaboration on urban greening in warming, drying cities	Dr Lucy Rose <i>Bush Heritage Australia</i> Improving accuracy of management costs and relevance of management options in research requires collaboration with management agencies and practitioners	Dr George Matusick Murdoch University Sudden region-wide vegetation die-off across southern Australia – diagnosing vulnerability and early consequences	Ryan Craig <i>University of Western Australia</i> Choose a host, any host: Assessing host preference in <i>Pilostyles hamiltoniorum</i> on its key host genus <i>Daviesia</i>	Nathan Anderson <i>University of Western Australia</i> Basal hollow development during prescribed burning of a giant tree species	Dr Emma Sumner Postdoc Western Sydney University Trait-climate relationships in kangaroo grass: common garden vs. field	Stephanie Todd <i>James Cook University</i> Within-population inbreeding depression is only the tip of the iceberg: the importance of drift depression in an endangered marsupial	Sharable Risk Analytics for managing biological invasions
1150-1155									Dr Thomas Newsome <i>University of Sydney</i> Scavenging by invasive species
1155-1200									
1200-1205	Professor Carla Catterall <i>Griffith University</i> Evidence based accounting for a biodiversity restoration market – cassowary credits and tropical rainforest	Dr Bronte Van Helden <i>University of Western Australia</i> Supporting wildlife in residential gardens: Wildlife-friendly gardening for biodiversity conservation and human wellbeing	Dr Samantha Lloyd <i>Healthy Land & Water</i> Children's ecological stories: Engaging eager minds	Dr Brendan Choat <i>Western Sydney University</i> Sudden canopy dieback in NSW coastal forests	Shenali Fernando <i>The University of Melbourne</i> Uncovering spatial interactions in eucalypt forests through point process modelling	Grant Linley <i>Charles Sturt University</i> Terrestrial fauna show widespread resilience to gigafire	Russell Larke <i>La Trobe University / Royal Botanic Gardens</i> Using genetics for management of the critically endangered Avon Peppermint (<i>Eucalyptus ornans</i> – Myrtaceae)	Dr Diana Robledo-Ruiz Monash University Using proxies of genetic load to guide conservation management: do they deliver what they promise?	
1205-1210				Chloe Bentze <i>University of South Australia</i> Effects of stringybark dieback on bird populations in the Mount Lofty Ranges, South Australia					Romane Normand <i>RMIT University</i> Evolution of drought resistance traits along an aridity gradient in native and introduced populations of capeweed
1210-1215				Lucy Zarew <i>Australian National University</i> Assessing the origins of variability in seedling freeze tolerance among snow-gum provenances					
1215-1220	Dr Ascelin Gordon <i>RMIT University</i> Five years of offsetting native vegetation in NSW: risks, uncertainties and challenges for no-net-loss and	Dr Lizzy Lowe <i>Edith Cowan University</i> Social barriers to environmental problems: stakeholder participatory research to reduce	Evariste Rutebuka <i>University of Melbourne</i> How can urban biodiversity practitioners' experiences inform indicators selection for monitoring and	A/Professor Gunnar Keppel <i>University of South Australia</i> Managing dieback: using refugia to facilitate persistence	Sangeun Kwak <i>National Institute of Forest Science of Korea</i> Photosynthetic Characteristics of Mangrove Species in Bali, Indonesia	Dr Cassie Speakman <i>FRB-CESAB</i> Understanding and predicting population consequences of anthropogenic disturbances: Current	Tiantian Pan <i>Macquarie University</i> Trait adaptations in <i>Eucalyptus</i> to temperature and precipitation — a common	Dr Nick Bradsworth <i>Zoos Victoria</i> Thirty-five years of field fitness and genetic data informs management to recover a critically endangered bird	

1220-1225	the nature positive agenda	urban insecticide use	reporting? Perspectives from Global South and Global North		Sophia Blofelds <i>The University of Melbourne</i> Sowing for seed: using urban native wildflower meadows for seed production	approaches and novel opportunities	environment experiment	Nicholas Bail <i>James Cook University</i> A genetic health assessment informs management of the Critically Endangered Nangur Spiny Skink (<i>Nangura spinosa</i>)	
1225-1230					Zoe McCarthy <i>University of New South Wales</i> The impacts of kleptobiosis in an insect-plant interaction			Dr Morgan Ellis <i>Deakin University</i> Data to Discovery: A beginners pipeline by ecologists for ecologists	(1225-1240) Dr Irene Martin-Fores <i>The University of Adelaide / TERN</i> Invasion Ecology's Tower of Babel: Lost in Translation
1230-1245		(1230-1235) Hugh Stanford <i>RMIT University</i> The contribution of informal green space to urban biodiversity: A city-scale assessment using crowdsourced survey data						(1230-1245) Dr Annika Lamb <i>Australian Institute of Marine Science</i> Designing genetic management of ecological communities: a case study of coral communities of the Great Barrier Reef	
1230-1330	Lunch (Tuesday)								
	1240-1320 - Austral Ecology Meetup								
	1240-1320 - Field Trip: Birrarung Trial Floating Wetlands (Tuesday) Participation fee: \$5. <i>Meet at the Registration and Information Desk in the Level 1 Foyer</i>								
TUESDAY AFTERNOON PLENARY SESSION and STUDENT AWARDS									
ROOM	Plenary 3								
CHAIR									
1330-1350	ESA President's address								
1350-1405	Jill Landsberg Applied Ecology Scholarship 2023 Presentation - Sara Cavalcanti Marques, Murdoch University								

1405-1410	Jill Landsberg Applied Ecology Scholarship 2024 - Edwin Wiedemeyer								
1410-1425	ESA 2024 Applied Forest Ecology Scholarship presentation								
1425-1440	ESA 2023 Fundamental Ecology Award Presentation - Joshua Lee, Western Sydney University								
1440-1510	AERA AWARD WINNER PRESENTATION								
1510-1530	Afternoon tea (Tuesday)								
CONCURRENT SESSIONS									
1530-1730	SYMPOSIUM: Nature Positive 2: the strengths and weaknesses of emerging policy tools in delivering positive biodiversity outcomes	SYMPOSIUM: Carbon dynamics from leaf to landscape under climate change: life in a warmer, drier world	SYMPOSIUM (part 2): Practitioner Engagement: Ecological Connections between Practitioners and Researchers	SYMPOSIUM: Using detection dogs in ecological research and monitoring 	SYMPOSIUM: Advancing ecological theory and management with near-term forecasts: an Australasian synthesis	OPEN FORUM: Fire Ecology	OPEN FORUM: Climate change	SYMPOSIUM (2): Conservation management of wildlife populations guided by genetics 	SYMPOSIUM: Australian Peatlands - Undiscovered and Unique Ecosystems
ROOM	Plenary 3	Room 105	Room 106	Room 104	Rooms 101/102	Room 103	Rooms 111/112	Room 110	Room 109
CHAIR		Zach Brown / Hilary Dawson		Emma Bennett		Natasha Robinson	David Coleman		Patrick Moss / Catherine Yule
1530-1545	Samuel Hickman <i>The University of Melbourne</i> Lessons from the University of Melbourne's Biodiversity Footprint	Professor Mark Hovenden <i>University of Tasmania</i> The carbon store of Tasmania's subalpine grasslands exists on a knife's edge	Dr Heather Neilly <i>Federation University</i> Prioritising restoration of arid rangelands; just remove water	Dr Katrin Hohwieler <i>University of The Sunshine Coast</i> Dogs for conservation: allies and data collectors	Dr Chaojiao Sun <i>CSIRO</i> Environment Forecasting of coral bleaching risks in the Great Barrier Reef	A/Prof Mark Ooi <i>University of New South Wales</i> Shifting fire regimes and seed biology: revisiting fire persistence traits and patterns of distribution	Dr Louise Ashton <i>The University of Hong Kong</i> Elevated ENSO oscillations are reducing tropical forest invertebrate diversity	Mikaeylah Davidson <i>The University of Melbourne</i> Selective breeding as a method to combat chytrid susceptibility	Prof Simon Haberle <i>Australian National University</i> Peatlands of Australia's nearest neighbour – recent research on the peatlands of New Guinea
1545-1550	Professor Samantha Capon <i>Griffith University</i> Nature positive in a negative climate: implications for biodiversity assessment	Dr Assaf Inbar <i>Western Sydney University</i> Carbon allocation and growth phenology in Australian trees	Lincoln Kern <i>Practical Ecology</i> Managing temperate grassland based on scientific research and the potential to develop a restoration enterprise in Victoria, Australia	Nicole Gill <i>Australian National University</i> Detection dogs can help researchers with elusive forest owl conservation	Dr Jian Yen <i>Arthur Rylah Institute</i> Using near-term forecasts to inform environmental flow deliveries for riverine fish	Eleanor Hadfield <i>The University of Sydney</i> Ears on Recovery: Post-fire responses of birds across different fire severities and	Dr David Coleman <i>Macquarie University</i> Future climates and temperature thresholds for Australia's island plants	Elliott Schmidt <i>James Cook University</i> Integrating thermal tolerance with population genetics to reveal the thermal landscape of a coral reef fish	Dr Gareth Chalmers <i>The University of The Sunshine Coast</i> Nutrient cycling and Carbon Storage in Empodisma minus dominated Peatlands, K'gari

						historical fire frequencies			(Fraser Island), Queensland
1550-1555	Dr Bernardo Cantone <i>CSIRO</i> Socioeconomic and ecological implications of the Australian carbon market	James King <i>Australian National University</i> The carbon dynamics of a sub-alpine grassland under a future climate							Prof Catherine Yule <i>University of the Sunshine Coast</i> Ecology of the Fire-Adapted Subtropical Wire Rush Peat Swamps of Queensland
1555-1600									Grace Smith <i>University of The Sunshine Coast</i> Biodiversity assessment of fire-adapted peatlands in Southeast Queensland using eDNA metabarcoding
1600-1605			Ben Roberts <i>Metro Trains Melbourne</i> Restoring Native Grasslands in urban Rail Reserves using Direct Seeding	Lynn Baker <i>Canines For Wildlife</i> Miki and the Mouse: adding scent detection dogs to the endangered Hastings River Mouse survey toolbox	Vihanga Gunadasa <i>The University of Sydney</i> Optimizing forecast horizon and model training length for forecasting population abundance	Sarita Chaulagain <i>The University of Melbourne</i> Fire regime effects on understory plant communities in temperate forests and woodlands	George (Clancy) Lester <i>The University of Melbourne</i> Floral visitation in the face of climate change: a collaborative study of native bees with Arnhem Land's Yolngu First Nation	Karina Guo <i>The University of Sydney</i> A Balancing Act: The Use of Genetics in Restoration to Build Disease Resistant, Climate Adapted and Genetically Diverse Populations	Dr Hilary Pearl The mounds and trenches of the Sunshine Coast heathlands: diversity values, and future research questions and directions
1605-1610	Dr Kellie Toole <i>University of Adelaide</i> Mapping the gaps and plugging the holes in legislation to tackle environmental crime in Australia	Dr Bora Lee <i>National Institute of Forest Science</i> Interdisciplinary Approaches to Carbon Dynamics in Mangrove Ecosystems		Kaitlyn Brown <i>Queensland University of Technology</i> Detection dogs as a post-eradication monitoring and assessment tool: A case study on Lord Howe Island		Dr Jane Cawson <i>The University of Melbourne</i> Tailoring burn prescriptions to achieve desired levels of patchiness and fire severity in heathy woodlands		Tamandra D'Ombain <i>La Trobe University</i> Development of an epigenetic clock for age estimation in deer	Dr David Blake <i>Edith Cowan University</i> PEAT - Protecting Peatland Ecosystems and Addressing Threats in Southwestern Australia
1610-1615				Dr Georgia Moloney <i>The University of Adelaide</i> Airing out wildlife trafficking: How		Christy Hung <i>The University of Sydney</i> In the hot seat - effects of fire		Dr Bronwyn Hradsky <i>The University of Melbourne</i>	

				canine olfaction can help to uncover illegal wildlife trafficking via maritime routes		temperature on ash properties from Eucalyptus litter		Genetic sampling reveals ten-fold variation in fox density across conservation reserves in western Victoria	
1615-1620									
1620-1625	Bronwyn Robertson <i>Terrain NRM</i> Achieving nature-positive and community-positive outcomes – insights from development of Cassowary Credits, a new market scheme in the Wet Tropics	Aaron Midson <i>Hawkesbury Institute for the Environment</i> Modelling net primary production, net ecosystem exchange, and stand structure in subalpine woodlands of the Australian Alps	Fiona Walsh <i>Enviro-Dynamics</i> Bringing species back from the brink of extinction: the case of collaboration and threatened grassland orchids	Dr Kylie Ireland <i>Department of Biodiversity, Conservation and Attractions</i> Sniffing out a hidden threat – new approaches to Phytophthora detection	Scott Forrest <i>Queensland University of Technology, CSIRO</i> Predicting animal movement with a deep learning step selection framework	Dr Sarah McColl-Gausden <i>The University of Melbourne</i> The hidden plant community: Can we use soil seedbanks to predict plant community response to fire?	Clare Vernon <i>Deakin University</i> Synthesising shrub responses to disturbances and climate change in Australian alpine and high elevation subalpine regions		Prof David Bowman <i>University of Tasmania</i> Soil and fire control of sedgeland forest mosaics in western Tasmania
1625-1630		Dr Hilary Rose Dawson <i>Australian National University</i> Carbon and water dynamics of understory community composition shifts in snow gum (<i>Eucalyptus pauciflora</i>) dieback						Dr Lauren White <i>Arthur Rylah Institute</i> The potential for unwanted genetic rescue in an invasive deer population	
1630-1635			Dr Sacha Jellinek <i>The University of Melbourne</i> Monitoring riparian vegetation in urban areas with Sentinel-2 satellite imagery	Dr Nick Rutter <i>Zoos Victoria</i> Applying wildlife detection dogs to fungal conservation	K.A.N.K. Karunarathna <i>The University of Queensland</i> Joint Modelling of Species Abundance and Latent Covariates using State-Space Dynamic Additive Models	Dr Benjamin Wagner <i>The University of Melbourne</i> Quantifying differences between mature and epicormic <i>Eucalyptus</i> leaf chemistry – drivers of landscape nutritional quality for folivores	Junlin Lyra Huang <i>University of New South Wales</i> Potential Mismatch Between Dugongs and Seagrass in the Future		
1635-1640	Dr Meredith Henderson <i>Eco Logical Australia</i> Can the first step in the mitigation hierarchy work when development zoning is applied?								Dr Samantha Grover <i>RMIT University</i> Plato's chair peatland: A reference ecosystem against which to benchmark restoration and conservation of Australia's Alpine Sphagnum Bog ecological community
1640-1645		Dr Alex Norton <i>Australian National University</i> Constraining Carbon Dynamics in an Agro-Ecosystem Model with Observational Data		Dr La Toya Jamieson <i>Zoos Victoria</i> So you think you want a detection dog? Key considerations when employing wildlife detection dog teams				Dr Rachel Tulloch <i>CSIRO</i> Putting airDNA to the test: assessing environmental influences and capture methods	
1645-1650			Dr Megan Murray <i>University of Technology Sydney</i> Community-connected phytoremediation at Delprat Gardens, Newcastle		Dr Steve Sinclair <i>Arthur Rylah Institute</i> Using monitoring data and expert opinion to forecasts grassland change under complex,	Lily Wheeler <i>The University of Melbourne</i> Forecasting future fire and changing climate impacts on mammal population persistence	Elise Verhoeven <i>The University of Sydney</i> Watching the grass grow: how grassland productivity responds to extreme	Joshua Youakim <i>La Trobe University</i> Distinguishing recent presence of invasive terrestrial mammals using an eDNA fragment length panel on water samples	

1650-1655	Tom Lloyd <i>University of Queensland</i> Applying target-based ecological compensation across landscapes			Tracy Lyten <i>Skylos Ecology</i> Wind Farm Mortality Conservation Dogs – Standards & Best Practice	multi-year management regimes		precipitation, nutrient addition and cattle grazing	Dr Emily McColl-Gausden <i>The University of Melbourne</i> Detecting the Bogong moth (<i>Agrotis infusa</i>) using environmental DNA	Charuni Jayasekara <i>RMIT University</i> Effects of degradation on the CO2 and CH4 dynamics of Australian alpine peatlands
1655-1700		Dr Tadeo Sáez-Sandino <i>Western Sydney University</i> Increasing numbers of global change stressors reduce soil carbon worldwide	Marina Corella Tor <i>The University of Queensland</i> Bridging the Gaps in International Cooperation for Migratory Bird Conservation	Naomi Hodgens <i>Zoos Victoria</i> Can dogs assist in saving critically endangered reptiles? Training Wildlife Detection Dogs to locate the Victorian Grassland Earless Dragon	Dr James Furlaud <i>CSIRO</i> Building an Expert-derived Reference State and Transition Simulation Model for southern Tasmanian Forests	Felicity Charles <i>The University of Queensland</i> How does fire history influence genetic diversity and reproductive traits in <i>Allocasuarina torulosa</i> , a Glossy black-cockatoo feed tree?	Dr Rachel Morgain <i>The University of Melbourne</i> Nature-based disaster risk reduction, climate adaptation and resilience as core NRM business	Mark Clifton <i>La Trobe University</i> Hybridisation and clonality within the endangered Callistemons of East Gippsland	Dr Sarah Treby <i>RMIT University</i> Feral horses in alpine peatlands: impacts on carbon cycling
1700-1705									
1705-1710	Jerome Chie-Jen Ko <i>Taiwan Biodiversity Research Institute</i> Navigating Biodiversity Informatics								
1710-1715	Without Top-Down Planning: Insights from Taiwan's Decentralized Approach	Pankaj Tiwari <i>Hawkesbury Institute for the Environment, Western Sydney University</i> Soil respiration declines under low rainfall but warming amplifies its response to rewetting in experimental temperate pastures near Sydney, Australia						Alex Carey <i>Charles Darwin University</i> Spatial population dynamics of declining mammals in fire-prone landscapes	Dr Aleicia Holland <i>La Trobe University</i> From frost to flames: determining the effect of fire severity on alpine peatland streams
1715-1720			Morgan Mcpherson <i>Derwent Catchment Project</i> A case study in attracting and retaining environmental volunteers - Tyenna River Willow Warriors	Emma Bennett <i>Monash University</i> Building models from detection experiments on conservation dogs to inform search effort	Dr Alistair Hobday <i>CSIRO</i> Ecological forecasting and operational information systems support sustainable ocean management	Grace Vielleux <i>The University of Melbourne</i> Too hot to handle: A resistance-resilience index to predict global mammals response to fire severity	Hannah Kusch <i>The University of Sydney</i> Grasslands in the Age of Extremes: The Impact of Rainfall, Grazing, and Nutrient Overload on Plant Productivity	Colin Sobek <i>Australian Centre for Ancient DNA</i> Community composition and variation in the northern hairy-nosed wombat (<i>Lasiorhinus krefftii</i>) faecal microbiome	
1720-1725	(1720-1735) James Templeton <i>Conservation Ecology Centre</i> The Big-Pig-ture		Chantelle Derez <i>The University of Queensland</i> Urban nuisance wildlife management: the fate of relocated carpet pythons and why we need snake consultants, not snake catchers		Dr Nicholas Clark <i>University of Queensland</i> Rethinking ecological research by embracing the power of near-term forecasting	(1720-1735) Stanislaw Wawrzyczek <i>La Trobe University</i> Does pollination by birds, non-flying mammals, and European honeybees affect plant mating?	Jennifer Evans <i>Australian National University</i> Genomic evidence for inbreeding depression in lifetime fitness of an endangered Australian bird	Jeremy Jeanjean <i>Deakin University</i> Investigating the tumour microbiome of Devil Facial Tumour transmissible cancers in Tasmanian devils	

1725-1730			<p>Dr Rochelle Steven <i>Murdoch University</i> Community Engagement and Participation in Feral Cat Management within the Southwest Biodiversity Hotspot</p>		<p>Prof Glenda Wardle <i>The University of Sydney</i> Blue sky, green pastures: Opportunities on offer through the Oceania Ecological Forecasting Initiative</p>	<p>Experimental comparison in an obligately outcrossing <i>Banksia</i> (Proteaceae)</p>	<p>Andrew Bird <i>La Trobe University</i> Sex and spider orchids: An experimental test of which floral traits influence pollinator behaviour</p>	<p>Lana Austin <i>Monash University</i> Reproductive isolation mechanisms in the eastern yellow robin hybrid zone? A mitonuclear perspective</p>	<p>Shelomi Doyle <i>University of New England</i> Wetlands as islands: floral diversity and similarity in Temperate Highland Peat Swamps on Sandstone on the Newnes Plateau</p>
1745-1815	Holsworth Alumni Networking Drinks								
1800-1830	ESA 2024 Queer Mixer								



Wednesday, December 11, 2024

0730-1800	ESA 2024 Registration Desk open. Level 1 Foyer								
WEDNESDAY MORNING PLENARY SESSION									
ROOM	Plenary 3								
CHAIR									
0900-0930	KEYNOTE PRESENTATION - Dr Phil Zylstra , <i>Adjunct Associate Professor, Curtin University; Visiting Fellow, Australian National University</i>								
0930-1000	KEYNOTE PRESENTATION - Dr Rachael Nolan , <i>Western Sydney University</i>								
1000-1030	Morning tea (Wednesday)								
CONCURRENT SESSIONS									
1030-1230	SYMPOSIUM (1): Getting it right in a changing climate: Climate sensitivity informing plant conservation	SYMPOSIUM (1): Advances in Fire Ecology Science: Species and Community Responses	SYMPOSIUM (1): Beyond Boundaries: Technological Innovations and Advancements in Ecological Monitoring and Conservation	SYMPOSIUM: Nature market mechanisms - one year on	SYMPOSIUM (1): Completing the adaptive learning cycle: linking monitoring to management for improved conservation outcomes	OPEN FORUM: Animal Behaviour	SYMPOSIUM: Getting your start: understanding plant establishment to predict vegetation change and the success of restoration and conservation interventions	OPEN FORUM: Ecological disturbance, Wetland birds	SYMPOSIUM (1): Functional traits, physiology and future climates
ROOM	Plenary 3	Room 105	Room 106	Room 104	Rooms 101/102	Room 103	Rooms 111/112	Room 110	Room 109
CHAIR	Paul Rymer		Siddeswara Guru	Sarah Luxton		Johanne Martens		Alex Holmes	Natalie Briscoe
1030-1035	Dr Hannah Carle	Professor Don Driscoll <i>Deakin University</i>	Dr Rebecca Gibson <i>NSW DCCEEW</i> Drivers of landscape patterns of fire	Elizabeth Edye <i>Commonwealth Department of Climate Change,</i>	A/Prof Carly Cook <i>Monash University</i> Promoting proactive and adaptive	Dr Guy Ballard <i>University of New England</i>	A/Prof Jodi Price <i>Charles Sturt University</i>	Sarah Letters <i>University of the Sunshine Coast</i>	Professor Michael Kearney <i>The University of Melbourne</i>

	<i>Hawkesbury Institute For The Environment</i>	Megafire impacts are mediated by drought, protected areas, and fire regime	heterogeneity in south-eastern Australian Eucalypt forests	<i>Energy, the Environment and Water</i> Science and knowledge to support the Nature Repair Market	approaches to managing species	Lessons from dingo watching in Oxley Wild Rivers National Park, NSW, Australia	The primary drivers of successful establishment in temperate grasslands	Influence of disturbance and vines on invertebrate pollinators along a tropical rainforest climate gradient	Functional traits, physics and future climates
1035-1040	Measures of climate				Dr Nicole Hansen <i>Department of Environment and Water, Government of South Australia</i> Making informed conservation decisions through setting triggers for proactive threatened species management: using NSW Saving our Species program case studies				
1040-1045	sensitivity to support ecological restoration under climate change								
1045-1050	Dr Wolfgang Lewandrowski <i>DBCA</i> Ecophysiological approaches at the nexus of conservation science and management initiatives	Dr Billy Geary <i>The University of Melbourne</i> Shifting fire regimes cause continent-wide transformation of threatened species habitat	Laura Cardona <i>University of Tasmania</i> Assessing human-wildlife interactions with camera trap technology	Angelica Del Hierro <i>Australian Sustainable Finance Institute</i> A finance sector perspective on nature-related investments and markets'			Nora Campbell <i>University of New South Wales</i> The behavioural impacts of culling on the highly social eastern grey kangaroo	Dr Rob Salguero-Gomez <i>University of Oxford</i> What happens below-ground - the neglected role of seed banks in population viability	Amber Crittenden <i>Marine Mammal Foundation</i> A soundscape anthropause: How did Covid-19 lockdown impact soundscape composition, vessel traffic, and dolphin acoustic presence in Port Phillip Bay?
1050-1055					Dr Claire Feniuk <i>Conservation Ecology Centre</i> Adaptation pathways for climate-resilient forest management: insights from Otway Ranges			Otasowie Eguagie <i>University of South Australia</i> Tropical cyclone impact is greater in the forest edge than the forest interior- Revisiting Cyclone Larry	
1055-1100					Dr Megan Good <i>CSIRO Environment</i> How can we integrate decision triggers into monitoring programs for ecological communities?			Dr Jingyi Ding <i>Beijing Normal University</i> Intensifying aridity induces tradeoffs among biodiversity and ecosystem services supported by trees	
1100-1105	Dr Suz Everingham	Dr Kristina MacDonald	Skye Anderson <i>University of Queensland</i>	Dr Nathan Wong <i>Djandak</i>	Dr Luke O'Loughlin <i>Office of Nature Conservation</i>	Annabel Ellis <i>The University of Sydney</i>	Dr Nick Schultz <i>Federation University Australia</i>	Alex Holmes <i>GHD Pty Ltd</i>	Dr Kristoffer Wild <i>The University of Melbourne</i>

	<i>Western Sydney University, Hawkesbury Institute For The Environment</i> Integrating plant vulnerability to drought in conservation science	<i>Charles Darwin University</i> Low rainfall may exacerbate the impacts of fire and invasive predators on wildlife	Cassowary conservation in the face of tropical rainforest degradation	Nature repair, an opportunity or threat to Country	Applying decision triggers to ecological monitoring in the ACT: A mix of good, bad, and ugly use	Bandicoot burglary: Using olfactory information to reduce digging by native mammals on an economically valuable crop	Lichen-dominated biocrusts influence grass germination and establishment in Victoria's Northern Plains Grasslands	Hattah Lakes Waterbird Surveys 2021 - 2023	Climate change and the cost-of-living squeeze in desert lizards
1105-1110					Dr Nicole Hansen Discussion - case studies & how learn from them				
1110-1115									
1115-1120	Dr Katinka Ruthrof <i>DBCA</i> Forest thinning to mitigate stress in a drying and warming climate	David De Angelis <i>La Trobe University</i> Revisiting the selection of burrow sites and activity by the Desert Skink (<i>Liopholis inornata</i>) in a fire-affected landscape	Joshua Wilson <i>The University of Queensland</i> Big Birder: Harnessing Big Data and AI for Bird Identification in Drone Imagery	Professor Brendan Wintle <i>The University of Melbourne</i> Will the Nature Repair Market be viable without biodiversity offsets?	Dr James Brazill-Boast <i>NSW Biodiversity Conservation Trust</i> Designing bang for buck monitoring to inform management decisions at multiple scales	Tessa Manning <i>University of Adelaide</i> Diet of the red-tailed phascogale (<i>Phascogale calura</i>) at two reintroduction sites in South Australia	Professor Mark Westoby <i>Macquarie University</i> Trait ecology of startup plants	Dr Nyil Khwaja <i>Arthur Rylah Institute For Environmental Research</i> Waterbird seasonality in Victoria	Rodolfo Anderson <i>Monash University</i> Linking physiology and climate to infer species distributions in Australian skinks
1120-1125		Dr Matthew Swan <i>The University of Melbourne</i> Pyrodiversity and its Discontents: Does the Paradigm Work in Fragmented Landscapes?							
1125-1130		Dr Saumya Wanniarachchi <i>The University of Melbourne</i> Small Mammals in Woodland Ecosystems: The Influence of Environmental Gradients, Fire History, Habitat and Foraging Resources							
1130-1135	Teza Mwamulima <i>The University of Melbourne</i> Forest Structure and Microclimate Buffering across	Aaron Heap <i>University of Melbourne</i> Repeat wildfires homogenise structure of temperate eucalypt forests	Lauren Hawkins <i>Department of Biodiversity, Conservation, and Attractions</i> A rapid survey of the acoustic communities of an ecological	Dr Katrina Szetey <i>CSIRO</i> Navigating human-nature interactions by exploring plural values across ecosystem states	Professor Jim Hone <i>University of Canberra</i> Biodiversity conservation efforts, outcomes and triggers for management	Dr Johanne Marie Martens <i>Zoos Victoria</i> Tracking migratory movements of the critically endangered Orange-bellied Parrot	Martyna Kotowska <i>Macquarie University</i> Trait trajectories during plant recruitment – Are resprouts and seedlings following different strategies?	Simon Heyes <i>La Trobe University</i> Tough guys for a tough future? Drought tolerance and survival of endemic soil specialist plants	Alejandro de la Fuente <i>James Cook University</i> Unveiling the Mechanisms of Climate-Induced Declines in

	an Environmental Gradient in south-eastern Australia		thinning trial: a community versus taxonomic-group based approach						Rainforest Ringtail Possums
1135-1140	Zahra Emlaei <i>Western Sydney University</i> Spectral Predictions of Plant Stress and Flammability under Climate Change								
1140-1145	Dr Jeronimo Vazquez-Ramirez <i>Deakin University</i> A drier maternal environment increases the drought resistance of Australian alpine seeds and seedlings								
1145-1200	Chaminda Alahakoon <i>Western Sydney University</i> Climate origin and life history predict seed germination niche in Western Sydney	Rachel McIntosh <i>La Trobe University</i> Climate, not vegetation type, drives differences in fire response in a semi-arid ecosystem	Gabriella Sparkes <i>The University of Queensland</i> A comprehensive analysis of koala movement on the ground	Dr Josh Dorrough <i>NSWDCCEEW</i> How do biodiversity metrics influence behaviour in a nature market?	Dr James Brazill-Boast Discussion - what data do we need to implement these approaches	Niraj Meisuria <i>University of Sydney</i> The Scavenging Dynamics and Social Interactions of the WedgeTailed Eagleacross 3 Contrasting Australian Bioregions	Associate Professor Rachael Gallagher <i>Western Sydney University</i> Into the wild: addressing plant extinction through establishment of new plant populations	Harriet Kulich <i>Arthur Rylah Institute For Environmental Research</i> Optimising water use in a dry country - An analysis of waterbird habitat associations	Dr George Cunningham <i>Deakin University</i> Sex in a warming climate: patterns of an effect of temperature on offspring sex in snow skinks across climatic landscapes
1200-1205	Dr Michael Just <i>Curtin University</i> Warm Stratification-Induced Shifts in Germination Temperature: Implications for	Dr John Patykowski <i>Northern Territory Government</i> Fire and the refugial role of <i>Macropteranthes kekwickii</i> (bullwaddy) shrublands and	Dr Susan Nuske <i>Ecofutures</i> A Python-based tool for automated compilation of biodiversity data from multiple databases	Dr Catherine Moran <i>Cath Moran Ecological Consultancy</i> Ecological knowledge needed to develop a rigorous accounting method		Abigail Robinson <i>Monash University</i> Do helpers facilitate extra-group paternity in a cooperatively breeding bird? An experimental test	Teah Coate <i>Deakin University</i> Germination requirements of Australian temperate saltmarsh species	Dr Jemma Cripps <i>Arthur Rylah Institute, DEECA</i> Post-flood population assessment of Giles' Planigale and Fat-tailed	Dr Elizabeth Wenk <i>University of New South Wales</i> Traits.build: an R package for building harmonised ecological trait databases

	Predicting Recruitment Responses in Mediterranean Climate Rutaceae under Climate Change	Acacia shirleyi (lancewood) forests in a tropical savanna		for a biodiversity credit scheme in the Wet Tropics of Australia				Dunnart in north-west Victoria	
1205-1210		Dr Heidi Zimmer <i>Centre for Australian National Biodiversity Research</i> Boom or bust: Patterns in fire responses of Australian orchids	Yee Von Teo <i>University of Tasmania</i> Automated detection of macropods in Tasmania using drone surveys and convolutional neural networks (CNNs)				Dr Samantha Andres <i>Hawkesbury Institute For The Environment</i> Assessing the costs and benefits of ecological restoration methods	Maria Alejandra Gutierrez Zorrilla <i>University of Tasmania</i> Bird Distribution and Habitat Preferences in Tasmanian Saltmarsh Wetlands	
1210-1215			Dr Arun Singh Ramesh <i>Terrestrial Ecosystem Research Network</i> Controlled vocabularies for Ecological Monitoring System Australia (EMSA)				Dr Rachel Standish <i>Murdoch University</i> Does soil conditioning by weeds matter for restoration?	Xenia Münger <i>Monash University</i> How does the risk of extreme weather events influence population viability? Integrating environmental disturbance into population viability analyses	
1215-1220	Dr Megan Hirst <i>Royal Botanic Gardens Victoria</i> Germination thermal niche: implications for seed-based restoration in climate-sensitive alpine environments	Tamika Farley-Lehmer <i>University of Melbourne</i> Can winter burning help prevent shrub encroachment?	Dr Cara Penton <i>Charles Darwin University</i> Using AI for Indigenous community based wildlife monitoring (1230-1245) Professor David Watson Professor of Ecology Charles Sturt University How machine-based monitoring is redefining rarity	Dr Anna Richards <i>CSIRO Environment</i> A Regional Toolkit of ecological knowledge: applying state and transition models to support nature repair		Dr Kimberly Sheldon <i>University of Tennessee</i> Behavioral plasticity of adult dung beetles protects offspring from climate change		Dr Richard Loyn <i>La Trobe University & Eco Insights</i> Nutrients sustain high waterfowl populations on a Ramsar-listed wastewater treatment plant: 20 years of adaptive management	Associate Professor Paul Rymer <i>Western Sydney University</i> Drought sensitivity is climate-adapted and is strongly influenced by functional traits in eucalypts
1220-1225				Dr Sarah Luxton <i>CSIRO</i> Discussion - Nature Market Mechanisms: 1 year on					Shona Elliot-Kerr <i>The University of Melbourne</i> Data Decisions in Mechanistic Niche Models
1225-1230									Yi Fei Chung <i>The University of Queensland</i> Modelling species persistence

										considering extreme climate events
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1230-1330	Lunch (Wednesday)									
	1240-1320 - Field Trip: Birrarung Trial Floating Wetlands (Wednesday) Participation fee: \$5. Meet at the Registration and Information Desk in the Level 1 Foyer									

CONCURRENT SESSIONS

1330-1500	SYMPOSIUM (2): Getting it right in a changing climate: Climate sensitivity informing animal conservation	SYMPOSIUM (2): Advances in Fire Ecology Science: Management and Planning	SYMPOSIUM (2): Beyond Boundaries: Technological Innovations and Advancements in Ecological Monitoring and Conservation	SYMPOSIUM: Advances and applications of Bayesian Network analyses in ecology Convenors: Erica Marshall and Helen Mayfield	SYMPOSIUM (2): Completing the adaptive learning cycle: linking monitoring to management for improved conservation outcomes	SYMPOSIUM: Spanners, connectors, catalysts, and levers for biodiversity: Tensions and opportunities for transformational systems change	OPEN FORUM: Conservation Practice	OPEN FORUM: Eat, be eaten or infected and stress out about it	SYMPOSIUM (2): Functional traits, physiology and future climates
ROOM	Plenary 3	Room 105	Room 106	Room 104	Rooms 101/102	Room 103	Rooms 111/112	Room 110	Room 109
CHAIR	Rebecca Jordan			Erica Marshall		Kate Lee	Tracy Rout	Julia Ryeland	Michael Kearney
1330-1335	Dr Stefanie Bonat <i>Science For Wildlife</i> Understanding the drivers of koala landscape use under climate change in the Greater Blue Mountains World Heritage Area	Dr Tom Fairman <i>University of Melbourne</i> Throwing fuel on the fire? Severe windstorm, fire hazard and ecosystem condition in temperate eucalypt forests of south-eastern Australia	Dr Paul Nevill <i>Curtin University</i> Complex spatio-temporal variation in arthropod-plant interactions identified using eDNA and digital video recordings	Dr Erica Marshall <i>University of Queensland</i> Introduction to Symposium	Dr Helen Mayfield <i>University of Queensland</i> Introduction to challenge 3: supporting proactive conservation management	Dr Jody Gunn <i>Australian Land Conservation Alliance</i> Protecting and Stewarding for nature	Benjamin Chipperfield <i>Monash University</i> An experimental evaluation of fish conservation zones in the Xe Banghieng River Basin, Lao PDR	Anna Langguth <i>The University of Melbourne</i> Seasonal immune changes in two Australian microbat species projected to be at risk of white-nose syndrome	Dr Pieter Arnold Research Fellow Australian National University Unifying thermal load sensitivity across life
1335-1340				Dr Anca Hanea <i>University of Melbourne</i> Expert elicitation for Bayesian Networks	Dr Stephanie Stuart <i>NSW Department of Climate Change, Energy, the Environment and Water</i> Building a community of practice: management triggers				
1340-1345					Dr Helen Mayfield <i>University of Queensland</i>				

					The value of expert knowledge for facilitating adaptive management of threatened species				
1345-1350	Jack Bilby <i>University of New South Wales</i>	Dr Ben Miller <i>DBCA</i> Prescribed burning effectiveness and management trade-off scenarios in southwest Australia's forest landscapes	Dr Romane Cristescu <i>University of the Sunshine Coast</i> Koala Guardians: Using Technology to Empower Community to Protect An Australian Icon	Dr Victoria Reynolds <i>University of Melbourne</i> Bayes Nets for environment fire risk assessment	Dr Megan Good <i>CSIRO Environment</i> A riparian woodland State and Transition Model to guide restoration planning	Maddison Miller <i>The University of Melbourne</i> Thinking as Nature, storying as Nature: an interactive storying approach to nature relationships	Natasha Stoudmann <i>University of Tasmania</i> Conservation in agricultural landscapes: Impact of privately managed interventions on habitat condition and woody cover	Danielle Wallace <i>The University of Melbourne</i> Lacklustre performance: fungal disease reduces male breeding colouration in a common Australian frog	Dr Zenon Czenze <i>University of New England</i> How Bats Beat the Heat
1350-1355									
1355-1400	It's getting hot in here: comparing micro- and macrohabitat use in a native and invasive mammal during extreme heat events								
1400-1405	Elouise Haskin <i>WWF-Australia</i> A framework to assess and reduce sea turtle feminization in a warming climate: The Turtle Cooling Project	Associate Professor Sabine Kasel <i>University of Melbourne</i> Population dynamics of <i>Persoonia arborea</i> (Tree Geebung) in response to disturbance. Implications for its conservation and management	Jess Tam <i>UNSW Sydney</i> Can AI re-identify individual feral cats in arid Australia?	Dr Erica Marshall <i>The University of Melbourne</i> Applying Bayesian Networks as decision-advisory for fire management in uncertain future environments	Associate Professor Carly Cook <i>Monash University</i> Discussion - limitations and caveats around models to support decisions, emerging and promising modelling tools	Dale Wright <i>RMIT University</i> Behavioural insights for transforming supply chains: exploring biodiversity-friendly coffee from producers to consumers	Dr Lydia Guja <i>DCCEEW</i> Call for data sharing and an open invitation to join SeedArc, a global archive of primary seed germination data	Dr Julia Ryeland <i>Symbolix Pty Ltd</i> The impact of Little Ravens as a novel predator – individual differences and extent of Little Penguin consumption	Philippa Alvarez <i>University of Technology Sydney</i> Take my breath away: seed respiration responses to increased heat stress
1405-1410	Mads Dwyer <i>La Trobe University</i> Key Factors Associated with Coast Tea Tree's invasion into Sand Heathland Communities								
1410-1415	Dr James Barker <i>NSW Department of Climate Change,</i>								
								Dana Lockhart <i>Queensland University of Technology</i> The Hidden Diet: Determining the Distribution of the threatened Julia Creek Dunnart (<i>Sminthopsis douglasi</i>) using Owl Pellet Analysis	
								Felix Requena-Garcia	

		<i>Energy, the Environment and Water</i> The implementation and application of tolerable fire intervals						<i>The University of Queensland</i> Fungal Foes: How Disease Shapes Social Dynamics in Eastern Water Dragons	
1415-1420	Dr Alex Slavenko <i>Cesar Australia</i> Projecting population trajectories to inform evolutionarily managed metapopulations: a case study with two Australian marsupials	Dr Carmen Piza Roca <i>University of The Sunshine Coast</i> Fighting fire with fire: Assessing the impacts of cultural burns on threatened species	John Van Osta E2M Applying an active learning framework to build a call detection model for the endangered southern black-throated finch	Dr Annalie Dorph <i>University of New England</i> Estimating feral cat control impact to inform management decision tools	Khorloo Batpurev <i>Arthur Rylah Institute</i> Defining a baseline in a policy setting – which one? An applied example from an EPBC listed community	Fern Hames <i>Taungurung Land & Waters Council</i> Traditional Owners' leadership in transformation: what does an emerging Biocultural Landscape really mean? For our head, heart, hands, and Country?	Francesco Santi <i>University of Bologna</i> Assessing plant occurrence data gaps for Europe's Mediterranean islands: insights for ecological research and conservation	Rebecca Grinter <i>La Trobe University</i> Frequent florivory of the deceptive orchid <i>Diuris chryseopsis</i> (Orchidaceae)	Jay Nicholson <i>Australian National University</i> Can drought and heatwave mortality risk be inferred from leaf traits in desert plants?
1420-1425									
1425-1430									
1430-1435	Lillian Maher <i>Deakin University</i> Research-informed conservation management of Little Penguins in a changing climate	Kate Morrison <i>The University of Melbourne</i> Understanding region specific drivers of wildfire regimes under a future climate in south-eastern Australia	Dr Zarrin Tasnim Sworna <i>CSIRO</i> KoalaQuery: A koala health query support powered by ChatGPT		Dr Richard Maloney <i>Department of Conservation</i> Application of decision triggers to New Zealand Department of Conservation management actions	Dr Lily Van Eeden <i>RMIT University</i> Conservation behaviour change and the science-policy interface	Kelsey Hannah <i>The University of Queensland</i> Understanding the flow of information and evidence in multilingual conservation citations	Assoc Professor David Taggart <i>University of Adelaide / FAUNA Research Alliance</i> Seasonal Changes in Body Condition and Diet of a Large, Burrowing, Arid Herbivore (<i>Lasiorhinus latifrons</i>) in Degraded and Intact Landscapes	Davide Siclari <i>Hawkesbury Institute of the Environment</i> Do urban trees and shrubs differ in water stress and thermal tolerance on hot days?
1435-1440		Angga Rachmansah <i>Charles Darwin University</i> High resilience of lizard assemblages to experimental fire in an Australian tropical savanna		Steven Myburgh <i>The University of Melbourne</i> A hybrid modelling approach to estimate spread of a conflict-inducing invasive species within a tropical savanna socio-ecological system				Angie Symon <i>Deakin University</i> Foraging ecology of the eastern barred bandicoot across its translocated range	

1440-1445		Ellen Rochelmeyer <i>Charles Darwin University</i> Direct, or indirect, that is the question: the effects of fire on important ecosystem engineers		Dr Helen Mayfield and Dr Erica Marshall Facilitated Discussion				Tia Scott <i>Earthcare St Kilda</i> Video Evidence of Rakali predation on a Little Penguin chick	
1445-1450	Courtney Adams <i>University of New South Wales</i> Can Numbats Cope with Extreme Heat?	Dr Amy Smith <i>Melbourne University</i> Fire management for ecosystem resilience	(1445-1500) Dr Raphael Trouve <i>The University of Melbourne</i> From flames to frames: LiDAR reveals changes in Eucalyptus forest structure after fire		Dr Nicole Hansen Discussion - Facilitated audience discussion about future directions – and sign up for community of practice	(1445-1500) Dr Katrina Szetey <i>CSIRO</i> Relational futures: place-based scenario modelling for landscape change	Dr Pauline Marsh <i>University of Tasmania</i> The benefits of nature connection over the life-course	Dr Mukta Mala <i>University of Oxford</i> Influence of Modest Temperature Increases on Aphid Responses to Parasitism	Joel Treutlein <i>The University of Melbourne</i> Assessing model predictions of microclimatic conditions in semi-arid heat refuges
1450-1455	Dr Phillipa McCormack <i>The University of Adelaide</i> Fires, Forests and Furry Stuff: Where's the Law At?		(1500-1515) Nathan Battey Technical Officer The Australian National University The Australian Mountain Research Facility: A Resource for Unified Observational and Experimental Research in Australia's High Country			(1500-1505) Kate Pratt <i>University of Tasmania</i> Translating human-nature connection in wetlands for policy and practice			Xuemeng Mu <i>UNSW</i> Heatwaves increase sub-leaf-scale heterogeneity in leaf temperature
1455-1500	Roxane Blackley <i>Desert Channels Queensland</i> New critters observed in re-emerging springs					(1505-1510) Dr Kate Lee <i>Arthur Rylah Institute, DEECA</i> Transdisciplinary coalitions for people and nature disaster recovery			Catherine Pottinger <i>University of Technology Sydney</i> How does microclimatic variation influence alpine plant photosystem heat tolerance thresholds?

1500-1530 Afternoon tea (Wednesday)

CONCURRENT SESSIONS

1530-1730	SYMPOSIUM 3): Getting it right in a changing climate: Adaptation interventions for ecosystem restoration	SYMPOSIUM (3): Advances in Fire Ecology Science: Determining and Achieving Desirable States	SYMPOSIUM (3): Beyond Boundaries: Technological Innovations and Advancements in Ecological Monitoring and Conservation	OPEN FORUM: Conservation Planning (2)	ECE Careers Forum	SYMPOSIUM: Understanding and predicting the impacts of global and local economic activity on nature using Integrated Assessment Models (IAMs)	SYMPOSIUM: The value of benchtop ecology: Diverse uses of omic-based techniques that explore ecological responses to extreme events	OPEN FORUM: Hot threatened species	SYMPOSIUM (3): Functional traits, physiology and future climates
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ROOM	Plenary 3	Room 105	Room 106	Room 104	Rooms 101/102	Room 103	Rooms 111/112	Room 110	Room 109
CHAIR	Hannah Carle	Laurence Berry	Siddeswara Guru	Clair Dougherty		Brendan Wintle	Nathali Machado De Lima / Sarah McInnes	Kelly Dixon	Kristoffer Wild
1530-1545	Dr Rebecca Jordan CSIRO Testing the effectiveness of climate-adjusted seed sourcing strategies for revegetation success	Dr Simon Watson Department of Energy, Environment and Climate Action Desirable States: Defining The Details Needed For Improved Land and Fire Management	Dr John Burley Australian National University Object-Based Remote Sensing of Individual Tree Phenology in Dense Time Series Imagery	Steph Horwood Enviro-dynamics Losing native vegetation in Tasmania: a statewide analysis on trends in native vegetation change	Join Us for the Early Career Ecologist Careers Forum at ESA2024! <i>We are excited to announce an engaging forum dedicated to early career.</i> <i>This is a unique opportunity to hear from nine diverse speakers representing local and state government, natural resource management, NGOs, industry, traditional owners, consultancies, zoos and botanical gardens, and academia.</i> <i>Each speaker will share a brief 5-minute talk about their career journey, the skills that propelled them to success, and insights into their current roles.</i> <i>Following the presentations, there will be a Q&A session, allowing you to ask questions and gain valuable advice directly from</i>	Professor Brendan Wintle The University of Melbourne Integrated Assessment Models (IAMs) - what are they, where and how might they be useful for conserving biodiversity?	Dr Nathali Maria Machado De Lima University of New South Wales Microbial Responses to Long-Term Revegetation in a Mediterranean Quarry: Insights from High-Throughput Sequencing	Justin Cally Arthur Rylah Institute Mature Forest Habitat Mitigates the Decline of an Endangered Greater Glider Population through a Widespread Disturbance Event	Dr Natalie Briscoe The University of Melbourne Quantifying patterns of trait variation to inform physiological models of species' responses to climate change
1545-1600	Lucy Coals Deakin University Climate adjusted provenancing to safeguard Zostera muelleri restoration	Dr Angie Haslem La Trobe University Setting outcomes targets to inform and evaluate fire management for ecological outcomes	Dr Jed Calvert Arbormeta Reconstructing rainforest dynamics in space and time: linking historical time-series with lidar-based plot data to understand tropical forest ecology	Dr Sapphire McMullan-Fisher Fungi4land How do we get fungi fingers in the conservation pie?		Dr Ernest Frimpong Asamoah Queensland University of Technology Impact of International Trade on Ecosystem Services	Allyson Malpartida Charles Darwin University Genomics approaches for monitoring terrestrial invertebrates: from fire to mining	Dr Kelly Dixon Territory Natural Resource Management Remote island refuge: challenges and outcomes in establishing a safe haven for a declining tropical rodent	Matt Elmer Monash University Seasonal clines and adult acclimation experiments highlight the importance of phenotypic plasticity in thermal tolerance in an Australian native bee
1600-1605	Dr Siegfried Krauss Kings Park Science, DBCA Optimising seed sourcing for restoration of degraded substrates under a changing climate	Professor Trent Penman The University of Melbourne Fire management in a changing world - we need action not inaction	Dr Annie Guillaume Swiss Federal Institute of Technology Lausanne Spatial resolution matters: finding the right topographic surrogate to predict coral species distributions	David Horseman Brightly (a Siemens Company) Maintaining and protecting ecological assets with strategic asset management: Sydney Olympic Park case study		Professor Brett Bryan Deakin University Introducing the Land Use Trade-Offs model Version 2: a next generation, national-scale land-use model for Australia	Sarah McInnes The University of New South Wales Molecular mechanisms supporting the persistence of Acacia pycnantha during the extreme heat of a bushfire	Hayley Geyle Charles Darwin University Integrating systematic and targeted scat collection approaches to estimate the abundance of a culturally significant threatened species on Indigenous lands	Dr Vinod Jacob Western Sydney University Climate Adaptation in Kangaroo Grass: Insights from a Widely Occurring Native Species
1605-1610				Dr Annisa Satyanti ABARES Department of Agriculture, Fisheries and Forestry Assessing Australia's forest-dwelling species and their threats					
1610-1615				Yihe Lyu					

				CAS,RCEES Off-site soil conservation effects are critical for addressing land degradation	professionals in their field. Join us after the forum for an informal Networking Session . Here, you'll be able to connect with the speakers, delve deeper into their work, and explore potential career paths in ecology. Don't miss this opportunity to expand your network and gain insights into various ecological careers! We look forward to seeing you there!"				
1615-1630	Madeline Toomey <i>Deakin University</i> Identifying signatures of climate adaptation in silver banksia, <i>Banksia marginata</i>	Chris Hardman AFSM <i>Department of Energy, Environment and Climate Action</i> Reflecting on history to guide our future fire management under a changed climate for a more desirable ecosystem state	Dr Sebastian Lopez Marcano <i>QCIF</i> Enabling National Infrastructure for Environmental Science through the Sustainable Futures Portfolio	Dr Joslin Moore <i>Arthur Rylah Insitute For Environmental Reserach</i> Tools to support strategic planning for wetlands in Victoria		Dr Amanda Irwin <i>The University of Sydney</i> Connecting consumption activity to impacts on biodiversity using input-output analysis – an Australian case study	Brittany Mitchell <i>UNSW Sydney Australian Museum</i> City slicker or city sicker? How Australian frogs and their immune systems are responding to urbanisation	Dr Tim Henderson <i>Australian Wildlife Conservancy</i> Critically endangered Central Rock-rats thriving in the absence of feral cats	Professor Belinda Medlyn <i>Western Sydney University</i> Quantifying and simulating ecosystem carbon/water flux responses to severe drought in Australia
1630-1645	Dr Marlene Wesselmann <i>Edith Cowan University</i> Enhanced thermal tolerance in warmer populations of the seagrass <i>Posidonia sinuosa</i> : implications for seagrass resilience to marine heatwaves	Dr Laurence Berry Facilitated Panel Discussion	Dr Erin Hahn <i>CSIRO</i> Pioneering airborne eDNA: Charting a pathway to practical monitoring	Dr Paul Maxwell <i>Ecofutures</i> Multi-disciplinary approach to developing nature based solutions in a coastal catchment		Dr Brooke Williams <i>Queensland University of Technology</i> Global to local miscalculations: a barrier to achieving Kunming-Montreal Global Biodiversity Framework objectives	Sarah Green <i>La Trobe University</i> Proteomic insights into the modulation of copper toxicity in chlorella by dissolved organic carbon	Annie Kraehe <i>Australian National University</i> Uncovering Pleistocene Ecosystems Through Stick-Nest Rat Middens	Dr Lily Leahy <i>La Trobe University</i> Assessing ecological strategies across the kingdoms of life: are ants like plants?
1645-1700	Dr David Tierney <i>Bush Heritage</i> Landscape accounting: a value-add for climate driven translocation		Kevin Newman <i>The University of Melbourne</i> Quantifying Individual Detection of Dingoes with Camera Traps and Lures	Clair Dougherty <i>Bush Heritage Australia</i> Using Theories of Change (ToC) to translate empirical evidence into effective management interventions		Dr Payal Bal <i>The University of Melbourne</i> Biodiversity outcomes under climate and land-use futures for Australia	Professor Pablo Jesús Marín García <i>Veterinary Public Health & Food Science & Technology (PASAPTA)</i> Ecometabolomics as a key tool for mitigating the impact of climate change on loggerhead sea turtles	Dr Amanda Lo Cascio <i>Deakin University</i> Estimating Density of A Wide-ranging And Vulnerable Large Carnivore Population – Wilkerr (Dingoes) In The Big Desert-Wyperfeld Cultural Landscape	Ella Cathcart-van Weeren <i>The University of Queensland</i> Fruiting patterns in Australian subtropical rainforest trees: insights from functional traits
1700-1705	Dr Lucy Holmes McHugh		Brittany Hayward-Brown	Dr Brad Farmilo <i>DEECA</i>		Professor Brendan Wintle	Dr Rosemary Kate Steinberg <i>Macquarie University</i>	Dr Cassandra Arkinstall	Nodoka Izumi <i>Western Sydney University</i>

	The University of Melbourne Voices from the emergency room: scientists and practitioners raise critical concerns about adaptation interventions for coral reefs		<i>Bush Heritage Australia</i> Automated VHF telemetry reveals Gouldian Finches increase ranging behaviour in response to resource scarcity: Implications for conservation management	Reimagining the Wombat Forest: Collaborative Management and Conservation Strategies		Facilitated Discussion	Octocoral Symbiodiniaceae, but not bacterial communities, are stable during and after heat stress on a subtropical reef	<i>University of Queensland</i> High survivorship and rapid population growth of the greater bilby (<i>Macrotis lagotis</i>) reintroduced to a feral predator enclosure	Interspecific variation in parenchyma anatomy in angiosperm xylem: Relations to respiration cost and hydraulic functions
1705-1710									Shannon Kleemann <i>University of Adelaide</i> Patterns of body condition and rainfall in a drought sensitive marsupial, <i>Lasiorninus latifrons</i> , and implications of climate change
1710-1715									Silvia Colombo <i>The University of Melbourne</i> The adaptive significance of nest architecture in birds: insights from field studies
1715-1720	Abigail Watkins <i>Ecofutures</i> Identifying priority actions amidst competing conservation objectives and climate change threats		Al Healy <i>University of Queensland</i> Identifying dynamic habitat resources in the drylands through satellite imagery and phenocams	Bhavendu Joshi <i>Deakin University</i> Mapping ecosystem services and underlining value preferences of stakeholders from a multi-use landscape in Nagaland, India			Dr Peter Harrison <i>Landscape Recovery Foundation</i> Proactive gene pool capture of critical seed sources for species survival and recovery	Cameron Charley <i>QUT</i> The utility of owl pellet content analysis to monitor the threatened Julia Creek Dunnart (<i>Sminthopsis douglasi</i>) at Toorak station, Queensland	Dr Malyon Bimler <i>The University of Melbourne</i> Community context alters native wildflower adaptations to drought
1720-1725								Harsh Pahuja <i>The University of Queensland</i> Creating a Reactive Scope Model for Koala Joeys: Enhancing Ecology and	

								Rehabilitation Understanding	
1725-1730									
1830-2200	<p>Conference Dinner, M-Pavilion at Melbourne Zoo</p> <p>Tickets for the Conference Dinner are NOT included in your registration fee. Tickets can be purchased for \$120 inc GST per person.</p> <p>Enter via the main gate from 1830. Buses will depart MCEC (Convention Centre Place) from 1800. Return shuttles to MCEC depart Melbourne Zoo from 2030. Last coach departs at 2200.</p> <p><i>Please note: the Conference Dinner is a primarily stand-up event with limited casual seating available.</i></p> <p><i>Tours of the Zoo will be available throughout the evening – pre-booking required. (Included in your dinner ticket price)</i></p>								



Thursday, December 12, 2024

0730-1800	ESA 2024 Registration Desk open. Level 1 Foyer
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THURSDAY MORNING PLENARY SESSION

ROOM	Plenary 3
CHAIR	

0900-0930	KEYNOTE PRESENTATION - ESA NEXT GENERATION AWARD PRESENTATION
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0930-1000	KEYNOTE PRESENTATION - Dr Paul Sunnucks, Monash University
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1000-1030	Morning tea (Thursday)
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CONCURRENT SESSIONS

1030-1230	SYMPOSIUM (1): Pathways to biodiversity-friendly farmlands: knowledge, barriers and opportunities	SYMPOSIUM (1): Advancing Theory in Community Ecology	SYMPOSIUM (4): Beyond Boundaries: Technological Innovations and Advancements in Ecological Monitoring and Conservation	SYMPOSIUM: Integrated Species Distribution Models (ISDMs): From data collection through to Inference / Prediction	SYMPOSIUM (1): Habitat by Design: Artificial Habitat for Recovery, Restoration, and Rewilding	SYMPOSIUM: Towards powerful, generalised trait-based models of fundamental and realised niches	OPEN FORUM: Movement Ecology	SYMPOSIUM: Connecting pyrodiversity, biodiversity and people in Australian landscapes	DISCUSSION / THINKTANK: Creating authentic learning experiences in the ecology classroom using Artificial Intelligence
ROOM	Plenary 3	Room 105	Room 106	Room 104	Rooms 101/102	Room 103	Rooms 111/112	Room 110	Room 107
CHAIR	Fred Rainsford	Courtney Taylor		Scott Foster	Alexandra Carthey / Melanie Bishop	Peter Vesk	Amanda Bush	Luke Kelly / Dale Nimmo / Julianna Santos	Caitlin Forster / Fran van den Berg
1030-1035	Dr Carla Archibald	David Armitage		Dr Scott Foster <i>Data61, CSIRO</i>	Dr Alexandra Carthey	Dr Shubham Chhajed	Amanda Bush	Dr Calum Cunningham <i>University of Tasmania</i>	Dr Francesca Van Den Berg

	<i>Deakin University</i> The habitat footprint of agriculture in Australia	<i>Okinawa Institute of Science and Technology</i> Integrating niche models and finite stochastic processes to forecast the climate sensitivity of population movement corridors	Emeritus Professor William Sherwin <i>EERC, BEES, UNSW-Sydney</i> DnaDot - Fixing Ecology and Evolution's Blind Spot, Population size	Integrated Species Distribution Models (ISDMs): From data collection through to Inference/Prediction	<i>Macquarie University</i> Habitat by Design: An overview and prospectus for the Symposium	<i>Hawkesbury Institute For The Environment, WSU</i> Understanding links between plant allometry, functional traits and the environment using first principles	<i>Department of Environment, Land, Water And Planning, Arthur Rylah Institute For Environmental Research</i> Foraging flights of the Southern Bent-wing Bat (<i>Miniopterus orianae bassanii</i>) in two seasons	Australia's changing pyrogeography indicates a coming period of flux Dr Holly Sitters <i>Australian Wildlife Conservancy</i> Reptile responses to fire patterns are influenced by rainfall in tropical savannas	Associate Lecturer University of Sydney Interactions with AI: Can students critique and modify AI-generated output for scientific reports?
1035-1040									
1040-1045								Professor Alan Andersen <i>Charles Darwin University</i> Active management of pyrodiversity is not required for maintaining ant diversity in an Australian tropical savanna	
1045-1100	Professor Martine Maron <i>The University of Queensland</i> Half a million hectares a year: what's behind Queensland's headline deforestation rate – and what should we do about it?	Dr Lynette Loke <i>The University of Melbourne</i> Relative importance of niches versus immigration in driving the diversity of intertidal communities	Adam Yaney-Keller <i>Monash University</i> Insights in Infrared: Advancing the Detection of Fur Seal Entanglement in Marine Debris with Thermal Aerial Imaging	Dr Kirstin Proft <i>Australian Bureau of Agricultural and Resource Economics and Sciences</i> Behind the integration: challenges and rewards in collating, preparing and sharing data for a national ISDMk	Dr Stacey Trevathan-Tackett <i>RMIT University</i> Trialling biodegradable lattices to facilitate seed and plant establishment in coastal wetlands	Dr Travis Britton <i>Hawkesbury Institute For The Environment, Western Sydney University</i> Trait-climate relationships in Eucalyptus: common vs. natural conditions	Nicholas Carter <i>Deakin University</i> Why did the owl cross the road? Movement patterns of a threatened apex predator in response to roads	Dr Julianna L. Santos Questions with speed talk presenters	Professor Nigel Andrew <i>Southern Cross University</i> Scaffolding the Use of Artificial Intelligence for Students and Academics across an Undergraduate Degree
1100-1105	Dr Fred Rainsford <i>La Trobe University</i> Farm-scale drivers of woodland-dependent bird diversity	Dr Andrew Letten <i>University of Queensland</i> We need to talk about (sublinear) density dependence	Paul Sinclair <i>Environmental Wildlife Drones</i> Revolutionizing Animal Tracking: Drone-Borne VHF Radio-Telemetry Technology	Dr Elliot Dovers <i>UNSW Sydney</i> Fast fitting for integrated species distribution models	Alex Goad <i>Reef Design Lab</i> Perspectives on designing habitat from an industrial designer	Professor Peter Vesk <i>University of Melbourne</i> Trait-SDM for eucalypts of southeastern Australia: Can we generalise about species response to environment?	Dr Varun Goswami <i>Conservation Initiatives</i> Where animal dispersal and humans collide: Planning for conservation at the interface of connectivity and human-wildlife conflict	Dr Julianna L. Santos <i>The University of Melbourne</i> How does pyrodiversity influence small mammal abundance and genetic diversity?	Dr Januar Harianto <i>The University of Sydney</i> Git Good: GitHub Copilot and Generative AI's impact on statistical education in the Biological Sciences
1105-1110					Dr Brendan Lanham <i>University of Melbourne</i> Surface complexity alters			Dr Annabel Smith <i>University of Queensland</i> Restoring pyrodiversity in subtropical grassy woodlands:	

					hydrodynamics: implications for shellfish recruitment to restoration substrates			experimental evidence from genes, population processes and community dynamics	
1110-1115					Sabrina Olsson <i>Deakin University</i> Opportunities and challenges when developing biodegradable biopolymers for coastal restoration			Dr Harry Moore <i>Department of Biodiversity, Conservation, and Attractions</i> The influence of fire mosaic attributes on mammal occurrence in north-western Australia	
1115-1130	Dr Daniel Nugent <i>Bush Heritage Australia</i> Conservation of the Plains-wanderer (<i>Pedionomus torquatus</i>) and Victoria's Northern Plains Grasslands: Challenges and opportunities in a changing landscape	Dr Natalie Jones <i>Griffith University</i> Dormancy promotes coexistence in fluctuating environments	Dr Megan Head <i>Australian National University</i> Developing new technology to monitor 95% of Australia's animal diversity	Dr David E. Uribe-Rivera <i>CSIRO</i> Feeding an Integrated SDM to estimate population density at subcontinental scale - Lessons from the National Koala Monitoring Program	Sophie Cheuk Yan Chan <i>The University of Melbourne</i> Fauna colonization and utilization of hybrid mangrove living shorelines	Julian Radford-Smith <i>University of Queensland</i> An eco-physiological basis for the assembly of Australian rainforest tree communities	Dr Divya Vasudev <i>Conservation Initiatives</i> A road to tiger population recovery: Mapping connectivity across habitats in South-Southeast Asia	A/prof Tim Curran Questions with speed talk presenters	DISCUSSION
1130-1145	Dr April Reside <i>University of Queensland</i> Don't come a cropper: Understanding how the Endangered Condamine earless dragons persist in an intensively managed agricultural landscape	Dr Simon Hart <i>University of Queensland</i> Phenotypic plasticity promotes species coexistence	Dr Jake Robinson <i>Flinders University</i> The underground stethoscope and biodiversity jukebox: can we use ecoacoustics and sonic stimulation to help restore soil biodiversity?	Charlotte Patterson <i>Queensland University of Technology</i> Can integrated species distribution models improve spatial model transfer? Antarctic 'islands' as a case study	Darcy Watchorn <i>Deakin University</i> Artificial refuges and their efficacy as a wildlife conservation tool after fire	Dr John Dwyer <i>The University of Queensland</i> Trait-mediated responses of cool subtropical rainforest tree communities to selective logging over 50 years	Mitchell Cowan <i>University of Western Australia</i> Simulating the effects of mining on the movement and habitat connectivity of an endangered mesopredator	Professor Dale Nimmo <i>Charles Sturt University</i> Landscape principles for the study of fire mosaics	
1145-1150	Dylan Westaway <i>Charles Sturt University</i> Wildlife restoration in	Melissa Gerwin <i>University of Tasmania</i> Competition and facilitation in a	Dr Roozbeh Valavi <i>CSIRO</i> Advancing the national habitat	Dr Matthew Rees <i>CSIRO</i> A data-driven model of feral pig	Emily Hegarty <i>Macquarie University</i> Mammal use of artificial Habitat Pods designed for	Dr Hao Ran Lai <i>University of Canterbury</i>	Marion Howard <i>University of The Sunshine Coast</i> Do fruit type and seed size influence the	Associate Professor Luke Kelly Questions with presenters	

	fragmented agricultural landscapes: trialling wild-to-wild translocation with two common reptiles	changing world: A novel technique to detect climate change effects on plant community interactions	condition assessment system (HCAS) software to enhance transparency and repeatability	distribution across Australia	the post-fire environment	Transferability of trait-based species distribution models	conservation objectives of highly fragmented Central Queensland Coast rainforest communities?		
1150-1155					Dr Holly Bradley <i>Curtin University</i> Fauna Habitat Design Criteria for Mine Site Rehabilitation				
1155-1200					Mikayla Green <i>Habitat Innovation and Management</i> Reintroduction of Eastern Quolls to Booderee National Park: Early findings from monitoring artificial quoll dens				
1200-1205	Berenice Della Porta <i>La Trobe University</i> Exploring microbial trait-based ecology to advance our understanding of soil health	Yuanzhi Li <i>Sun Yat-Sen University</i> The Prevalence and Latitudinal Decline of Higher-order Interactions among Trees in Global Forests	Matt Smith <i>UNSW</i> Automated ecological monitoring: A case study during a boom-and-bust cycle in arid Australia	Dr Andrew Hoskins <i>CSIRO</i> Mapping the very iconic: using integrated approaches in a national scale threatened species monitoring program	Jaclyn Harris <i>Monash University</i> The Role of Artificial Refuges in Supporting Reptile Communities in a Post-Fire Landscap	Associate Professor Daniel Falster <i>University of New South Wales</i> A general framework explaining variation in economic traits with environment and through ontogeny	Parvathi Krishna Prasad <i>Deakin University</i> Sociality and movement of Asian elephants in an anthropogenic landscape	Professor Michael-Shawn Fletcher <i>The University of Melbourne</i> Empirical demonstration of the underlying causes of southeast Australia's catastrophic fire problem	
1205-1210								A/Prof Tim Curran <i>Lincoln University</i> Pyrodiversity requires the creation of fire refugia: green firebreaks and Indigenous ecological knowledge can help do that	
1210-1215								A/Prof Luke Kelly <i>The University of Melbourne</i> Co-designing management strategies for pyrodiversity and biodiversity	
1215-1230	Dr Tracy Rout <i>WWF-Australia</i> Communicating Australia's progress in	Dr Nicole Rafferty <i>The University of Melbourne</i>	Dr Michael Shackleton <i>La Trobe University</i>	Nicholas Pattison <i>Monash University</i> Integrating Diverse Data Streams to	Dr Jennifer Anson <i>Australian Wildlife Conservancy</i> Artificial shelters improve monitoring	Dr Laura Williams <i>Western Sydney University</i> Promises and challenges in	Nic McCaffrey <i>WSP Australia</i> Atlas of wildlife crossings and mitigation structures	Professor Dale Nimmo <i>Charles Sturt University</i> Questions with speed talk presenters	

	threatened species recovery	Warming of experimental plant-pollinator communities alters traits and interactions	Mapping wetland habitat through remotely sensed data	Map Highly Mobile Seabird Species	effectiveness for reintroduced rodents	incorporating trait-based ecology in a predictive, process-based model of Australian vegetation dynamics	across Victoria – a new platform for discovering fauna sensitive infrastructure design		
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1230-1330	Field Trip: Birrarung Trial Floating Wetlands (Thursday)								
	Lunch (Thursday)								

CONCURRENT SESSIONS

1330-1530	SYMPOSIUM (2): Pathways to biodiversity-friendly farmlands: knowledge, barriers and opportunities	SYMPOSIUM (2): Advancing Theory in Community Ecology	SYMPOSIUM: Nature-dependent ecosystem services in agricultural landscapes	SYMPOSIUM: Wildfire Futures - Interdisciplinary challenges and opportunities in understanding and exploring future fire regimes	SYMPOSIUM (2): Habitat by Design: Artificial Habitat for Recovery, Restoration, and Rewilding	OPEN FORUM	OPEN FORUM: Landscape Ecology, Urban Ecology	OPEN FORUM: Pollination	Workshop: Children's ecological stories: Engaging eager minds
ROOM	Plenary 3	Room 105	Room 106	Room 104	Rooms 101/102	Room 103	Rooms 111/112	Room 110	Room 107
CHAIR	Fred Rainsford		Jessie Moyses	Thomas Fairman		Emma Hudgins	David Deane	Linda Riquelme	Sam Lloyed / Briana Melideo
1330-1345	Naoki Katayama <i>Institute For Agro-environmental Sciences, Naro</i> Biodiversity conservation and sustainable rice agriculture: past achievements and future challenges in Japan	Lisa Danzey <i>University of Technology Sydney</i> Testing two predictive techniques to model plant communities in the high Tropical Andes	Jessie Moyses <i>Queensland University of Technology</i> Do interrow floral strips boost bees and berries?	Dr Libby Rumpff <i>University of Melbourne</i> INTRODUCTION: Managing biodiversity and fire: learning from the 2019/20 fires	Professor Melanie Bishop <i>Macquarie University</i> Living Seawalls: lessons from scaling up marine eco-engineering	Dr Sydney Collett <i>BMRG</i> Measuring the Moonaboola	Dr David Deane <i>La Trobe University</i> What do you mean, 'small'? An ecological definition and objective method to differentiate small patches	Eamonn Culhane <i>La Trobe University</i> Pollinator sharing between threatened sexually deceptive Rustyhoods and its implications for conservation	Science and nature picture books and stories have always held a special place in the hearts of children. However, appreciation and recognition for the broad and beneficial outcomes of science and nature-based children's literature has grown rapidly over the past decade. In particular, there has been
1345-1350	Michelle Littlefair <i>Australian National University</i>	Rhys Cairncross <i>The University of Sydney</i> The mid-domain affects ecosystem	Sara Kross <i>University of Canterbury</i> A bustle in your hedgerow: the role of non-crop	Emily Simpson <i>University of Sydney</i> Four Years On: Insights from Post-fire Monitoring in	Carl Tippler <i>Habitat Innovation and Management</i> The Challenges and Triumphs in Designing and	Louise Durkin <i>Arthur Rylah Institute for Environmental Research</i> Acoustic monitoring of floodplain frog	Hannah Faraone <i>Federation University</i> The litter bird-en: investigating bird - litter interactions and impacts	Dr Marinus De Jager <i>La Trobe University</i> Endangered and common Caladenia orchids elicit different	

	Frogs in Farm Dams	processes: Evidence of the mid-domain effect in Australian alpine bioregions influencing scavenger community function	habitat in harbouring biodiversity and knock-on effects for farmers	the Blue Mountains World Heritage Area, Australia	Constructing Effective Artificial Habitats for Wildlife	communities to inform water and flow management		behaviour from their shared pollinator	increasing demand and interest in ecological and environmental books. No longer are these titles confined to the classroom or school library! Beautiful, engaging and informative books are being published for children and their grown ups to enjoy in their home and outside of formal learning environments. These books include various forms of non-fiction (e.g. traditional, narrative, and expository) and realistic fiction. Australian publishers are leading the way, showcasing the unique and fascinating Australian environment, science and technology knowledge and stories on the national and international literary stage.
1350-1355				Dr Katitza Marinkovic Chavez <i>The University of Melbourne</i> Incorporating Young People's Views and Participation into Building Hopeful Wildfire Futures			Adam Baldock <i>UNSW</i> Urban High rises and Herbivory Surprises: Herbivory is higher in urban areas		Beautiful, engaging and informative books are being published for children and their grown ups to enjoy in their home and outside of formal learning environments. These books include various forms of non-fiction (e.g. traditional, narrative, and expository) and realistic fiction. Australian publishers are leading the way, showcasing the unique and fascinating Australian environment, science and technology knowledge and stories on the national and international literary stage.
1355-1400						Dr Rose Macaulay <i>The University of Melbourne</i> Backyard benefits: Private green space preferences in Australian greenfield estates			
1400-1405	Annette Cavanagh <i>La Trobe University</i> Ecological condition shapes patterns of plant diversity on farms consistently across south-eastern Australia	Joshua Botti-Anderson <i>Australian National University</i> Long-term changes in an alpine plant-pollinator network: implications for plant reproductive function	Callan Alexander <i>Queensland University of Technology</i> Birdwatching and wine: Monitoring avian diversity in vineyards through automated acoustic detection			Madeleine Holmes <i>Macquarie University</i> Pop-up med spas: determining where to build hotspot shelters for frog conservation	Dr Emma Hudgins <i>University of Melbourne</i> Optimal management to slow the spread of North American forest insects and pathogens	Thomas Wilkins <i>University of Melbourne</i> Optimizing spatially-weighted forest measures for predicting in-stream macroinvertebrate assemblage responses is improved by high-resolution stream mapping that includes headwaters	
1405-1410				Dr Ella Plumanns Pouton <i>Ecological and Forestry Applications Research Centre</i> Rewilding future fire as a natural ecological process	Professor Jonathan Webb <i>University of Technology Sydney</i> Restoring habitats to bring endangered broad-headed snakes back from the brink in the face of ongoing threatening processes				
1410-1415					Dr Meg Edwards <i>University of Southern Queensland</i> Chip 'N' Save: Revolutionising Targeted Refuge Supplementation For Wildlife				This fun and engaging session will be facilitated by Briana Melideo, Books Publisher at

1415-1420	Kimberley Michael <i>Flinders University</i> Collaborating for conservation: assessing the impacts of profitable grazing on the endangered pygmy bluetongue	Dr Jill Lancaster <i>The University of Melbourne</i> A role for recruitment limitation in structuring communities of species with complex life cycles	Dr Kerry Bridle <i>University of Tasmania</i> Barking mad or ewenique? Using wool to deter deer from damaging young Eucalyptus viminalis plants in a Tasmanian grassy woodland		Holly Butterworth <i>University of Western Australia</i> Big frog in a little pond: Residential garden ponds provide conservation benefit in urban landscapes	Prof Rebecca Lester <i>Deakin University</i> Identifying areas favourable for species of interest using environmental proxies compared to modelling processes	Dr Galen Holt <i>Deakin University</i> Quantifying spatial context to improve ecological understanding from focal sites	Elena Kaminskaia <i>The University of Melbourne</i> Effects of reduced solar radiation and warming on plant-pollinator interactions	CSIRO Publishing, with over 20years experience in the industry and Dr Sam Lloyd, Principal Scientist with Healthy Land and Water and children's author, with over 20years experience in ecological research, management and communication.
1420-1425	Brodie Crouch <i>University of Queensland</i> Improving woodland bird community condition and grazing productivity; the hunt for win-wins in the Brigalow Belt			Dr Aaron Greenville <i>The University of Sydney</i> Our eyes and ears on the ground: a sensor network for post-disaster species recovery					
1425-1430	Laurie Kerr <i>Enviro-dynamics</i> The benefits of developing a carbon farming and biodiversity plan for a farm			Dr Alex Filkov <i>University of Melbourne</i> Advancing Bushfire Behaviour Data Collection					
1430-1435	Dr Matthew Selinske <i>Mosaic Insights</i> Nature Positive by 2030: How do we transition the Australian agriculture sector?	Prof Barbara Downes <i>University of Melbourne</i> Catchment ridge-lines as "insect superhighways" that shape community structure across landscapes	Rhiannon Bird <i>University of Queensland</i> Spatial Analysis of Insect Trophic Interactions to Inform Integrated Pest Management and Biological Control		Selina Kosak <i>Macquarie University</i> Bats, boxes and hollows: trialling artificial habitat for insectivorous bat conservation	Dr Timothy Moulton <i>UERG</i> Trophic cascades and strong interactions in tropical streams and their consequences for material processing and productivity	Dr Tamielle Brunt <i>The University of Queensland</i> City Streams, Hidden Platypus: Environmental DNA determines urban stream syndrome effects on platypus persistence	Allison Menzies <i>La Trobe University</i> Structured Chaos: Floral Visitor and Pollen Transport Networks in a Remnant Grassland	
1435-1440			Christopher Bradley <i>Australian National University</i>						

			Using satellites to detect the effects of shelterbelts on crop and pasture production in Australia						
1440-1445			Eliza Thompson <i>The University of Melbourne</i> Links between remnant vegetation, birds and insect pest damage in Australian eucalypt plantations	Dr Nicholas Wilson <i>Australian National University</i> Where and when do ignitions become large bushfires?					
1445-1450	Erica Cseko-Nolasco <i>Queensland University of Technology</i> Enabling farmers' actions: drivers (and barriers) of biodiversity conservation in different farming systems	Sarah Taig <i>Deakin University</i> Species-specific infection with changing temperatures may promote species coexistence in stream insects	Dr Jessa Thurman <i>CSIRO</i> Death on the Edge: contributions of arthropod predators and parasitoids to biological control in organic agriculture across space and time	Dr Alison O'Donnell <i>CSIRO</i> Environment Quantifying the impacts of fire on the age and carbon stocks of Australia's Great Western Woodlands	Dr Christina Zdenek <i>Australian Reptile Academy</i> Saving Palm Cockatoos and other hollow-dependent species	Professor Euan Ritchie <i>Deakin University</i> An assessment of the Top End's savannas	Dr Biang Syiem <i>Conservation Initiatives</i> Functional traits predict site use of birds across different seasons in a tropical forest-agriculture landscape of India	Dr Linda Riquelme <i>La Trobe University</i> Can floral traits predict pollinators? A case study of Victorian threatened flora	
1450-1455					Dr Jo Isaac <i>Ecology And Restoration Australia</i> How to make a Greater Glider hollow Great				
1455-1500									
1500-1505	Professor Chris Johnson <i>University of Tasmania</i> Biodiversity guardians: how livestock guardian dogs can help create	Chih-Yun Liu <i>The University of Adelaide</i> Community structure and dynamics of aquatic invertebrates in semi-arid	Dr Alex Maisey <i>La Trobe University</i> Farm-scale Natural Capital Accounting: measuring and quantifying natural	Ange Pestell <i>Deakin University</i> The scope of research on how prescribed fire impacts wildlife: a global review	Remo Boscarino-Gaetano <i>University of New England</i> The Potential Use of Artificial Habitat Structures to Aid in the Conservation of Australian Wildlife	Dr Jinyan Yang <i>CSIRO</i> A framework for dynamic assessments of terrestrial ecosystem condition	Paola Talarico <i>La Trobe University</i> Metal bioaccumulation and oxidative stress in flathead (<i>Platycephalus bassensis</i>) and fiddler ray (<i>Trygonorrhina</i>	Manuel Sevenello <i>The University of Melbourne</i> Effects of habitat fragmentation on pollination dynamics and plant mating patterns	

	biodiversity-friendly farmlands	temporary rock pools	capital on farming enterprises		Inhabiting Solar Farms		dumerilii) from Port Phillip Bay		
1505-1510		Wei Lin <i>University of Melbourne</i> How does inter-annual rainfall variability influence species coexistence in a subtropical annual plant community?		A/Prof Lauren Bennett <i>The University of Melbourne</i> Formulating options for active management of forests under changing fire regimes					
1510-1515		Dr David Wilkinson <i>University of Melbourne</i> Defining and evaluating predictions of joint species distribution models							
1515-1520	Dr Wesley Ward <i>Gulbali Institute, Charles Sturt University</i> Researchers, NRM managers and farmers need trusting relations for effective NRM research on private lands: what's common, what's not?		Dr Wei Wei <i>Chinese Academy of Sciences</i> Impacts of mountain terraced landscapes on multiple ecosystem services for human and nature		Associate Professor Ricky Spencer <i>Western Sydney University</i> Bio-Haven Islands: Empowering Communities to Save Endangered Turtles and Water Birds	Dr Elizabeth Znidersic <i>Charles Sturt University</i> Monitoring bittern booms in the Barmah-Millewa Forest	Adam Bennett <i>Charles Sturt University</i> Electrical infrastructure and animal biodiversity — The good, the bad and the hopeful	Nidhi Chakma <i>Griffith University</i> What plant species are foraged on by stingless bees in the Wet Tropics?	
1520-1525				Dr Hamish Clarke <i>University of Melbourne</i> Decision support for climate-adapted bushfire risk mitigation			Zoe Davis <i>The University of Melbourne</i> Biodiversity for Children: A Systematic Review of the Associations Between Biodiversity and Childhood Mental Health and Wellbeing	Zac Walker <i>University of Melbourne</i> Adjacent crop identity impacts pollination network structure in remnant wildflower communities	
1525-1530							Angela Muscatello <i>The University of Melbourne</i> The impact of ecological function in urban environments		

1530-1600	Afternoon tea (Thursday)
CLOSING PLENARY SESSION	
ROOM	Plenary 3
CHAIR	
1600-1620	KEYNOTE PRESENTATION - ESA GOLD MEDAL WINNER
1620-1650	KEYNOTE PRESENTATION – NZ ES TE TOHU TAI AO AWARD WINNER – Susan Wisser, <i>Manaaki Whenua – Landcare Research</i>
1650-1730	Announcement of Prizes and Awards plus Closing Remarks

Friday, December 13, 2024

5:30 AM - 10:00 AM	Field Trip: Nangak Tamboree Wildlife Sanctuary, La Trobe University – Breakfast with the Birds and Nursery Tour
7:45 AM - 6:15 PM	Field Trip: Wild Otways Initiative: Conserving threatened species in the Otways through landscape-scale integrated threat management practices (Phytophthora cinnamomi and vertebrate pests)
9:00 AM - 12:00 PM	Workshop: How to ACTUALLY make a difference: connecting ecology, policy and law to influence decision-making for a better future
9:00 AM - 1:00 PM	Workshop: Build Your Own Call Recogniser: Integrating Passive Acoustic Monitoring with AI for Scalable Biodiversity Tracking
9:00 AM - 4:00 PM	Workshop: Articles for Action: how to write research papers useful to land managers, practitioners, policy-makers and the public
9:00 AM - 5:00 PM	Field Trip: Starvation Creek (Forest Global Earth Observatory Network Site)
	Field Trip: Western Treatment Plant, Werribee
9:30 AM - 11:30 AM	Workshop: Sharing biodiversity data using the 'galaxias' R package
9:30 AM - 12:30 PM	Workshop: Ecological Time Series Analysis and Forecasting in R (morning workshop)
9:30 AM - 4:00 PM	Workshop: Modelling heat and activity stress in plants and animals with NicheMapR
10:00 AM - 11:30 AM	Field Trip: Koorie Heritage Trust Scar Tree Walk
10:00 AM - 12:00 PM	Workshop: Capturing Conservation - Lessons in taking and using images for conservation advocacy and action
10:00 AM - 2:00 PM	Workshop: Nature Writing
1:00 PM - 3:00 PM	Workshop: Using science communication to increase impact: A practical workshop
1:00 PM - 4:00 PM	Workshop: Species Distribution Models for Environmental, Ecological, and Conservation Applications with EcoCommons Australia
	Workshop: Whys and Hows of Interdisciplinary Collaboration
2:00 PM - 5:00 PM	Workshop: Ecological Time Series Analysis and Forecasting in R (afternoon workshop)