



## New Zealand Ecological Society Conference

#nzes2024

### PRE-CONFERENCE DAY - Monday 25 November 2024

0930-1600	<p><b>Red Stag Timber Student Day</b> @ Toi Ohomai (Mokoia campus)          The Student Day detailed programme will be announced soon  <i>Brought to you with support from Red Stag Timber</i></p>
1730-1930	<p><b>Icebreaker</b> with name badge pick up @ BREW ('Eat Street', 1103 Tutanekai Street)          Free to attend - we encourage you to bring your enthusiasm and good vibes! Food and (discounted) drinks will be available for purchase at the venue. A short social walk (~1 hour) looking at some ecological sites at the Rotorua lakefront will be offered by Chris Bycroft near the end of this session.</p>

### DAY 1 – Tuesday 26 November 2024

0745	<p><b>Registration desk opens @ Energy Event Centre</b> (Grand Hall)</p>
0845-0930	<p><b>Conference Opening with Mihi Whakatau</b> (Bay Trust Forum)          Addresses from NZES President Simon Moore (DOC) &amp; Co-Convenors Jo McQueen &amp; Chris Bycroft (Wildlands)</p>
0930-1000	<p><b>Plenary 1: Sarah Wharekura</b> (<i>Te Arawa Lakes Trust</i>) "Weaving mātauranga māori into each stage of conservation"          Chair: Craig Morley</p>
1000-1030	<p><b>Morning Tea</b> in the Exhibition Area</p>

	<b>Symposium: How Invasions Misshape Our World</b> <i>Brought to you with support from Bay of Plenty Regional Council</i>	<b>Symposium: Tākiri te ata – Mātauranga Māori &amp; Ecology</b>	<b>Symposium: Plant Ecology in a Changing Climate</b>	<b>General Session: Invertebrates</b>
	Chairs: Thomas Carlin & Leigh Tait Room: Bay Trust Forum	Chair: Erana Walker Room: Skellerup	Chairs: Kasey Barton & Cate Macinnis-Ng Room: WSP	Chair: Vikki Smith Room: Downer
1030-1045	<b>Alteration of ecosystem services by invasive species</b> <i>Leigh Tait</i>	<b>Whakawhanaungatanga</b>	<b>Ecophysiology of heteroblastic plants along a climate gradient</b> <i>Kasey Barton</i>	<b>Surveys and Sensibility: Methods for sensible, standardised invertebrate surveying</b> <i>Vikki Smith</i>
1045-1100	<b>The Bay of Plenty New to Region Pest Plants Programme</b> <i>Jo McQueen-Watton</i>	<b>Biocultural diversity and the nature of evidence</b> <i>Priscilla Wehi</i>		<b>The behavioural ecology of a sympatric population of threatened katipō (<i>Latrodectus katipo</i>) and invasive false katipō (<i>Steatoda capensis</i>)</b> <i>James Roberts</i>
1100-1115	<b>A molecular investigation of the evolutionary ecology of <i>Bonamia</i> shellfish parasites</b> <i>Felix Vaux</i>	<b>Ahakoā he iti he pounamu; Although small, it is precious: Exploring how mātauranga can inform and support the conservation of pekapeka</b> <i>Jade Watkin</i>	<b>Community and leaf-level controls of carbon fluxes in an invaded NZ alpine tussock grassland</b> <i>Indira Leon</i>	<b>Courtship and courtship behaviour in eastern white- tailed spiders (<i>Lampona murina</i>)</b> <i>Lewis Luo</i>
1115-1130	<b>Temporally-indexed multi-species density impact functions: Quantifying timing and impact of invasive predators on seabird breeding success</b> <i>Michael Fox</i>	<b>Te Haumanu Taiao: Restoring the natural environment in Tāmaki Makaurau</b> <i>Paul Duffy, Gavin Anderson &amp; Adrian Pettit</i>	<b>Shoot flammability varies throughout the year in some species, and is related to plant water relations and leaf size</b> <i>Niger Sultana</i>	<b>Preliminary findings of Wetā susceptibility to fluralaner, a common anti-parasite treatment for pets</b> <i>Chloe Mc Menamin</i>
1130-1145	<b>The current state of play for mustelid eradication</b> <i>Andrew Veale</i>	<b>Making scientific journals a better home for Mātauranga Māori</b> <i>Thomas Etherington</i>	<b>An initial assessment of growth rates of native tree species and restoration plantings in Aotearoa New Zealand: implications for policy and practice</b> <i>Brad Case</i>	<b>Improving detection and monitoring techniques for Darwin's ants at low density</b> <i>Ella Speers</i>
1145-1200	<b>Development of an automated detection tool for incursions of invasive submerged weeds</b> <i>Daniel Clements</i>	<b>Artistic and culturally-focused activities result in more positive community attitudes towards a rare, cryptic species: pekapeka</b> <i>Kerry Borkin</i>	<b>Exploring Hidden Drivers of Tree Range Shifts with a Novel Machine Learning Approach</b> <i>Ilya Shabanov</i>	<b>Invertebrate herbivory in ferns – a New Zealand case study</b> <i>Janelle Evans</i>

1200-1300	Lunch in the Exhibition Area		
	General Session: Invasive Species	Symposium: Tākiri te ata – Mātauranga Māori & Ecology (continued)	Symposium: Plant Ecology in a Changing Climate (continued)
	Chair: Rhys Burns Room: Bay Trust Forum	Chair: Erana Walker Room: Skellerup	Chairs: Kasey Barton & Cate Macinnis-Ng Room: WSP
1300-1315	<b>Native Mammals of the New Zealand Region</b> <i>Carolyn King</i>	<b>Bridging Knowledge Systems: Integrating Indigenous Perspectives with Scientific Approaches in Climate Adaptation and Biosecurity</b> <i>Waipaina Awarau-Morris</i>	<b>Winter dormancy release in Kauri (<i>Agathis australis</i>) in a warming world</b> <i>Dejan Firm</i>
1315-1330	<b>Dama wallaby are not bouncy possums: operational and research learnings from attempted wallaby elimination projects</b> <i>Tim Day</i>	<b>Cultural Value of Urban Forest - Lessons for Urban Ecological Restoration</b> <i>Erana Walker</i>	<b>Rainforest canopy trees are functionally and demographically distinct</b> <i>Jennifer Bufford</i>
1330-1345	<b>Testing the thermal squeeze hypothesis: Do temperature and invasive species determine vital rates of New Zealand's forest birds?</b> <i>Anne Schlesselmann</i>	<b>Symposium: Ecological Impacts of Tropical Cyclones</b>	<b>Phenology and distributions of Aotearoa/New Zealand orchids in a changing climate</b> <i>Joe Dillon</i>
		Chair: Willie Shaw; Room: Downer	
		<b>Overview of cyclone ecology in New Zealand and globally</b> <i>Peter Bellingham</i>	
1345-1400	<b>Eradicate everything: Is there a disconnect between pest management strategies and community-based conservation?</b> <i>Margaret Stanley</i>	<b>A spatial assessment of damage to native ecosystems from Cyclone Gabrielle</b> <i>James McCarthy</i>	<b>Interaction between weather cues and plant resources in mast seeding plants</b> <i>Dave Kelly</i>
1400-1415	<b>Boosting predator control with optimised lure strategies</b> <i>Giorgia Vattiato</i>	<b>Wetland resilience and services</b> <i>Jess Copsey</i>	<b>Drought-deciduous response in the southern conifer New Zealand kauri under natural and simulated drought</b> <i>Cate Macinnis-Ng</i>
1415-1430	<b>Revolutionising small pest mammal control using an innovative drone-delivered bait system</b> <i>Craig Morley</i>	<b>Impacts of Cyclone Gabrielle on freshwater and coastal ecosystems</b> <i>Becky Shanahan</i>	<b>Synergistic local adaptation to drought and freezing in a North American willow</b> <i>Kyle Rosenblad</i>
1430-1445	<b>Do ship rats prey switch to native birds when mast seeding events finish?</b> <i>Jo Carpenter</i>	<b>Impacts of Cyclone Gabrielle on shorebird populations and riverbed habitats on Hawke's Bay's braided rivers</b> <i>Annabel Beattie</i>	<b>Panel Discussion</b>
1445-1500	<b>Estimating the impact of Predator Free Wellington on Wellington tree wētā (<i>Hemideina crassidens</i>) via spatially explicit capture and recapture</b> <i>Jarrod Hosnell</i>	<b>Impacts of Cyclone Gabrielle on Aotearoa New Zealand ecosanctuaries</b> <i>Warwick Allen</i>	

1500-1530	Afternoon Tea in the Exhibition Area		
	<b>General Session: Invasive Species (continued)</b>	<b>General Session: Marine</b>	<b>General Session: Plant Development &amp; Morphology</b>
	Chair: Thomas Carlin & Leigh Tait Room: Bay Trust Forum	Chair: Carolyn Lundquist Room: Skellerup	Chair: Damien Sellier Room: WSP
1530-1545	<b>Possum exclusion boosts mangeao seed production in Waikato forests</b> <i>Margaret Dickinson</i>	<b>Blue carbon habitats in Aotearoa New Zealand—opportunities for conservation, restoration, and carbon sequestration</b> <i>Carolyn Lundquist &amp; Phoebe Stewart-Sinclair</i>	<b>To correct or not to correct? Divergent strategies of posture control in three forest tree species</b> <i>Damien Sellier</i>
1545-1600	<b>Assessing wilding risk of <i>Pinus radiata</i> and <i>Pinus attenuata</i> hybrids: could it be the right tree in the right place?</b> <i>Sarah Wyse</i>	<b>Mapping coral cay morphology, vegetation and wildlife from drone imagery and its effect on seabirds</b> <i>Dan Breen</i>	<b>Shedding Light on Heteroblasty: Assessing Environmental Influences on Transition Heights in New Zealand Heteroblastic Plants</b> <i>Irisa Hudson</i>
1600-1615	<b>Phenotypic plasticity of invasive hawkweeds under drought conditions in Aotearoa New Zealand's tussock grasslands</b> <i>Rachael Lockhart</i>	<b>Integrating Environmental Stressor Data into Marine Spatial Planning for the Otago Coastal Marine Area</b> <i>Anirudh Arvind</i>	<b>Reevaluating the loss of divarication hypothesis on New Zealand's outlying islands</b> <i>Riccardo Ciarle</i>
1615-1630	<b>Palms on the Move: Investigating Niche Conservatism and Invasion Risk of Non-Native Palms in Aotearoa New Zealand</b> <i>Alisha Keshaw</i>	<b>First Investigations of Diet and Habitat Niche Overlap in Three Deep-Sea Flying Squid Species</b> <i>Samuel Clough</i>	<b>Open Session</b> Room: WSP
			<b>Evaluating landscape connectivity methods for wildlife corridors in the Greater Limpopo Transfrontier Conservation Area</b> <i>Helen DeKlerk</i>
1630-1645	<b>Panel Discussion combined with Symposium 'How Invasions Misshape Our World'</b>	<b>Carbon and Nitrogen microbial cycling from Aotearoa (NZ) marine methane seeps</b> <i>Arola Moreras Marti</i>	<b>Legacies of Past Land Use on the Southern Cumberland Plateau</b> <i>Lily Tidwell</i>
1645-1650	Transition to Plenary Session (Bay Trust Forum)		
1650-1720	<b>Plenary 2: Susan Wisser</b> ( <i>Manaaki Whenua - Landcare Research</i> ) "A 30-year perspective on ecological infrastructure in New Zealand" Chair: Sarah Beadel		
1720-1900	<b>Poster &amp; Networking Reception in the Exhibition Area</b> (Grand Hall) Beverages & canapés provided. Poster presenters requested to stand with their poster to take questions from other delegates. <i>Brought to you with support from Waikato Regional Council</i>		

**DAY 2 - Wednesday 27 November 2024**

0800	<b>Registration opens @ Energy Event Centre</b> (Grand Hall)			
0820-0825	<b>Housekeeping</b> (Bay Trust Forum)			
0825-0855	<b>Plenary 3: Sandra Anderson</b> ( <i>University of Auckland</i> ) “Active Ecology” Chair: Jo Monks			
0855-0925	<b>Plenary 5: Bruce Clarkson</b> ( <i>People, Cities and Nature</i> ) “Bringing indigenous nature back into New Zealand urban centres: progress over the last 20 years?” Chair: Jo McQueen			
0925-0930	Transition to Concurrent Sessions			
	<b>Symposium: Ecology in an Urban Environment</b> <i>Brought to you with support from People, Cities, Nature</i>	<b>Symposium: Environmental Change in Belowground Ecosystems</b>	<b>Symposium: Measuring &amp; Managing Carbon in New Zealand’s Ecosystems</b> <i>Brought to you with support from Department of Conservation &amp; Ministry for Primary Industries</i>	<b>General Session: Plant Animal Interactions</b>
	Chairs: Daniel Richards & Thomas Carlin Room: Bay Trust Forum	Chair: <i>Estela Folch Chaos &amp; Kasey Kiesewetter</i> Room: Skellerup	Chairs: Renee Johansen & Micah Scholer Room: WSP	Chair: Ryan deRegnier Room: Downer
0930-0945	<b>Biodiverse residential spaces in a densifying city: policy challenges and a biodiversity assessment tool</b> Professor <i>Yolanda van Heezik &amp; Jacqueline Theis</i>	<b>Edge effects influence soil microbial community structure and function under small tree patches in pastoral landscapes</b> <i>Kara Allen</i>	<b>Impacts of introduced browsers on forest carbon stocks measured over four decades: A Maximising Forest Carbon Programme case study from Rakiura/Stewart Island</b> <i>Micah Noel Scholer</i>	<b>Colourful fruity fungi: adapting to bird and reptile sensory ecology</b> <i>Anne Gaskett</i>
0945-1000		<b>The effect of land management on arbuscular mycorrhizal fungal communities in New Zealand</b> <i>Fionnuala Bulman</i>	<b>Native Afforestation Programme: Feasibility Study of Establishing a Network of Native Tall Tree Seed Orchards vs. Seed Islands</b> <i>Stanislav Garbuz</i>	<b>Establishing frugivory by kōrero geckos of a native shrub</b> <i>Elliot Weir</i>
1000-1015	<b>Empowering communities as the foundation for effective citizen science</b> <i>Abigail Cunninghame</i>	<b>Plant invasion down under: Exploring below-ground impacts of invasive plants on the Central Plateau of New Zealand</b> <i>Andrea Clavijo McCormick</i>	<b>Review of current research on native forest establishment on extremely eroded land</b> <i>Sandra Velarde Pajares</i>	<b>Of birds and bryophytes: Nesting ecology of and bryophyte use by New Zealand birds</b> <i>James Brock</i>
1015-1030	<b>People, Cities &amp; Nature: a future-thinking programme in urban ecological restoration research</b> <i>Kiri Joy Wallace</i>	<b>Can’t see the microbes for the trees: pine microbiota invasion allies and buffers to change</b> <i>Joanna Green</i>	<b>Carbon sequestration in Aotearoa NZ’s planted native forests</b> <i>Jacqui Aimers</i>	<b>Provision of Ecosystem Services and Disservices by Birds in Horticulture: Knowledge Gaps, Trends and the Neglect of Native Species</b> <i>Giuliana Ferrari</i>

1030-1100	<b>Morning Tea</b> in the Exhibition Area			
	<b>Symposium: Ecology in an Urban Environment (continued)</b>	<b>Symposium: Environmental Change in Belowground Ecosystems (continued)</b>	<b>Symposium: Measuring &amp; Managing Carbon in New Zealand's Ecosystems (continued)</b>	<b>General Session: Biodiversity &amp; modelling</b>
	Chairs: Daniel Richards & Thomas Carlin Room: Bay Trust Forum	Chair: <i>Estela Folch Chaos &amp; Kasey Kiesewetter</i> Room: Skellerup	Chairs: Renee Johansen & Micah Scholer Room: WSP	Chair: Justyna Giejsztowt Room: Downer
1100-1115	<b>Do cats still play when the rats are away? The impact of selected predator control on invasive mammalian predators in an urban environment</b> <i>Angela Knight</i>	<b>The threat of a major tree pathogen to forest soil mesofauna food webs and ecosystem functioning</b> <i>Marijke Struijk</i>	<b>Using Global Navigation Satellite System technology to improve location accuracy for applied ecological research within indigenous forests</b> <i>Alex Fergus &amp; James Shepherd</i>	<b>Aotearoa needs you: contribute to the models on the front lines of the fight for biodiversity</b> <i>Justyna Giejsztowt</i>
1115-1130	<b>Changes in the Ecological Integrity of urban forest remnants in Auckland City 2009 - 2023</b> <i>Craig Bishop</i>	<b>Global analysis of soil microbial responses to experimental warming and plant species removal in alpine ecosystems</b> <i>Natascha Lewe</i>	<b>Efficient Biomass Estimation in Natural Forests with SLAM Laser Scanning and Deep Learning in Large Plots</b> <i>David Pont</i>	<b>Developing future scenarios for Aotearoa's biodiversity using the IPBES Nature Futures Framework</b> <i>Carolyn Lundquist</i>
1130-1145	<b>Analysing trends in lizard mitigation translocation methodology across New Zealand</b> <i>Diana Methner</i>	<b>Temperature responses of soil food-webs along geothermal gradients in New Zealand</b> <i>Estela Folch Chaos</i>	<b>Investigating the use of Carbonyl Sulfide as a tracer for Gross Primary Production of New Zealand indigenous forests</b> <i>Kararaina Te Puni</i>	<b>Trait-based Climate Change Vulnerability Assessment of Aotearoa New Zealand's Terrestrial Species</b> <i>Anni Brumby</i>
1145-1200	<b>Bridging the Gap: Priorities, concerns, and compromises amongst urban forest stakeholders</b> <i>Thomas Carlin</i>	<b>How does fire impact plant-soil feedbacks and soil fungal communities in New Zealand's tussock grasslands?</b> <i>Nicola Day</i>	<b>Small patches of trees make critical contributions to Aotearoa-New Zealand</b> <i>Daniel Richards</i>	<b>What's the risk? An analysis of the risk of rats, mice and stoats invading islands</b> <i>Pete Corson</i>
1200-1330	<b>Lunch</b> in the Exhibition Area + <b>NZES AGM</b>			

	<b>Symposium: Ecology in an Urban Environment (continued)</b>	<b>Symposium: Environmental Change in Belowground Ecosystems (continued)</b>	<b>Symposium: Harnessing ecological sciences to improve primary industry sustainability, productivity and resilience</b> <i>Brought to you with support from Timberlands</i>	<b>General Session: Lizards &amp; Birds</b>
	Chairs: Daniel Richards & Thomas Carlin Room: Bay Trust Forum	Chair: <i>Estela Folch Chaos &amp; Kasey Kiesewetter</i> Room: Skellerup	Chair: Stuart Fraser Room: WSP	Chair: Jo Monks Room: Downer
1330-1345	<b>Urban gateways: the role of cities in invasive species risk and response</b> <i>Nicolas Meurisse</i>	<b>Elevated Carbon Dioxide Alters Soil Nitrogen Cycling Genes in a Grazed Grassland</b> <i>Freya Newton</i>	<b>Using ecological knowledge to support transitions from low to high diversity pasture</b> <i>Kate Orwin</i>	<b>Using eDNA detection devices to monitor a cryptic population of endangered Otago skinks</b> <i>Samuel Purdie</i>
1345-1400	<b>Exploiting fear for non-lethal cat management</b> <i>Sze Wing Yiu</i>	<b>Climatic drivers of oomycete communities at plant and community scales</b> <i>Ian Dickie</i>	<b>Continuous Cover Forestry as a potential response to challenges facing New Zealand</b> <i>Yvette Dickinson</i>	<b>Trying to get bang for a buck: efficiency of monitoring approaches for Lakes skink (<i>Oligosoma chloronoton</i> aff. "West Otago")</b> <i>Scott Bourke</i>
1400-1415	<b>Reimagining, reclaiming and reconnecting indigenous voices in urbanism – a review of indigenous approaches for urban ecological restoration</b> <i>Mahuru Wilcox</i>	<b>Urbanization reduces the importance of microbial effects on native plant community productivity in a fragmented landscape</b> <i>Kasey N. Kiesewetter</i>	<b>Kea pine for an exotic home?</b> <i>Jodanne Aitken</i>	<b>Conservation implications of exceptional gestation length in Aotearoa's alpine geckos</b> <i>Jo Monks</i>
1415-1430	<b>Bat Box Monitoring: Testing the Efficacy of eDNA and Other Contemporary Methods</b> <i>Fiona Davies</i>	<b>Exploring drivers of soil microbial community assembly in urban restored forests</b> <i>Stella Brachmann</i>	<b>Ecological management of natural areas in Tarawera Plantation Forest, Bay of Plenty</b> <i>Angela McQuillan</i>	<b>Genomics helps unravel the evolutionary history of the Southern Alps geckos</b> <i>Sarah Walters</i>
1430-1445	<b>Panel Discussion</b>	<b>Using metabolic theory to assess the restoration trajectory of body size structure in trees and soil fauna</b> <i>Andrew Barnes</i>	<b>Plantation forestry and biodiversity: how many beetle species can an exotic plantation forest support?</b> <i>Carl W. Wardhaugh</i>	<b>Seasonal dietary resource-switching by North Island Kākā on native and introduced plants – a comparative study using field observations and citizen science</b> <i>Tirth Vaishnav</i>
1445-1500		<b>Panel Discussion</b>	<b>The use of black soldier fly for bioconversion of organic waste in Aotearoa-New Zealand: a new sustainable approach</b> <i>Adriana Jeannette Najar Rodriguez</i>	<b>Possible decline of North Island kōkako after years of increases</b> <i>Rhys Burns</i>
1500-1530	<b>Afternoon Tea</b> in the Exhibition Area			

1530-1600	<b>Plenary 6: Hervé Jactel</b> ( <i>National Research Institute for Agriculture, Food and the Environment</i> ) “Forest diversity and resistance to native and exotic insect pests” Chair: Stuart Fraser		
1600-1605	Transition to Concurrent Sessions		
	<b>General Session: Ecosystems/Plant Ecology</b>	<b>General Session: Freshwater Ecology</b>	<b>General Session: Soils and below-ground ecosystems</b>
	Chair: Sarah Beadel Room: Bay Trust Forum	Chair: Kathryn Ross Room: Skellerup	Chair: Nicola Day Room: WSP
1605-1620	<b>History and Future Management of Geothermal Vegetation and Habitats in the Wairākei Tauhara Geothermal System, Taupō, Aotearoa New Zealand</b> <i>Chris Bycroft</i>	<b>What would happen to the Lake Benmore trout fishery if the sockeye salmon population collapsed?</b> <i>Blake Harper</i>	<b>Soil plant growth-promoting bacterial diversity changes with land use intensity and environmental conditions</b> <i>Syrie Hermans</i>
1620-1635	<b>New Zealand's Active Sand Dunes: Preliminary Findings from the Dune Systems of National Significance Project</b> <i>Teresa Konlechner</i>	<b>Research on the Ecological Function of Submerged Plants</b> <i>Kaining Chen</i>	<b>Land use intensity is a major driver of soil microbial and carbon cycling across an agricultural landscape</b> <i>Alexa Byers</i>
1635-1650	<b>Managing one of New Zealand's most threatened and misunderstood ecosystems: gumlands</b> <i>Marley Ford</i>	<b>Bigger on their own: size structure of Chatham Island mudfish (<i>Neochanna rekohua</i>) populations with tuna (<i>Anguilla spp.</i>)</b> <i>Grace Fortune-Kelly</i>	<b>Insect herbivores increase soil respiration by increasing soil bacterial abundance in an alpine tussock grassland</b> <i>James Den Uyl</i>
1650-1705	<b>Fernal Destination? The Mysterious Mechanisms of Monospecific māātā Colonies and Their Effects on Restoration and Succession in Northern Aotearoa</b> <i>Cameron Guy</i>	<b>Microplastics in New Zealand urban ponds and effects on amphibians raised in ponds with microplastics</b> <i>Bryony Alden</i>	
1705-1720	<b>Driving from the back seat? Can understorey tree ferns influence nutrient cycling through modifying litter decomposition rates?</b> <i>Bruce Burns</i>	<b>Freshwater inputs and elevation define estuarine community assembly</b> <i>Anthony 'AJ' Gillis</i>	
1800	Buses depart from EEC to Rydges Hotel for dinner guests		
1830-1030	<b>Conference Dinner</b> at Rydges Hotel (10 Tryon Street, Whakarewarewa, Rotorua) A banquet style dinner with NZES awards and entertainment. RSVP required. Buses departing for CBD 9.30, 10.00 & 10.30pm approximately. <i>Brought to you with support from Wildland Consultants</i>		



DAY 3 - Thursday 28 November 2024

0800	<b>Registration opens @ Energy Event Centre</b> (Grand Hall)		
0820-0825	<b>Housekeeping</b> (Bay Trust Forum) Chair: Kathryn Ross		
0825-0855	<b>Plenary 7: Teresa Eyre</b> ( <i>Department of Environment, Science and Innovation</i> ) "Teamwork and tenacity: Ecological science supporting biodiversity conservation policy in Queensland, Australia"		
0855-0900	Transition to Concurrent Sessions		
	<b>Symposium: Pekapeka, how we shape their world and they shape ours</b>	<b>Symposium: Indigenous forest restoration and protection, lessons from Aotearoa New Zealand's long conservation movement to address emerging threats</b> <i>Brought to you with support from Scion</i>	<b>General Session: Education and Social Science Ecology</b>
	Chair: Kerry Borkin Room: Bay Trust Forum	Chairs: Katerina Pihera-Ridge & Michael Bartlett Room: Skellerup	Chair: Thomas Carlin Room: WSP
0900-0915	<b>Progress towards recovering New Zealand's threatened bat populations; What have we learnt and what's next?</b> <i>Colin O'Donnell</i>	<b>Surveillance tools for mapping the distribution of Kauri and <i>Phytophthora agathidicida</i></b> <i>Lauren Waller</i>	<b>Advancing ecological knowledge through teaching and outreach on Rēkohu Wharekauri Chatham Island</b> <i>Travis Ingram</i>
0915-0930		<b>Risk based surveillance of the pathogen <i>Phytophthora agathidicida</i> across the Kaimai Conservation Park</b> <i>Roanne Sutherland</i>	<b>Bridging Education and Restoration: How School Partnerships Can Support Long-Term Ecosystem Recovery</b> <i>Spencer Ingley</i>
0930-0945	<b>Does white light and blue wavelength-filtered light influence the activity of light-naïve long-tailed pekapeka?</b> <i>Grant Tempero</i>	<b>Monitoring is essential for integrated disease management and the relevance of research, lessons from a myrtle rust case study</b> <i>Michael Bartlett</i>	<b>Modelling hysteresis dynamics in social-ecological knowledge systems</b> <i>George Perry</i>
0945-1000	<b>Effect of traffic noise playback on bat behaviour and vocalisations</b> <i>Alisha Hart</i>	<b>E heke e Heka! E piki e Pia! Get down, rust! Rise, young sapling!</b> <i>Taiawhio Bryers</i>	<b>Symposium: Ecology in a Post-Truth World</b>
			<b>Providing a trusted platform for conversations and information in a post-truth world</b> <i>Amanda Black</i>
1000-1015	<b>How prey abundance and weather influence long-tailed bat (<i>Chalinolobus tuberculatus</i>) activity in a fragmented agricultural landscape</b> <i>Jode Page-Corney</i>	<b>A virulent soil pathogen reshapes rain forest understorey sapling population dynamics and successional trajectories</b> <i>Toby Elliott</i>	<b>Are natural forests really 40 times better than plantations for fighting climate change?</b> <i>Steve Wakelin</i>
1015-1030	<b>Do bats cross the road? Behavioural monitoring of long-tailed bats (<i>Chalinolobus tuberculatus</i>) along the Waikato Expressway</b> <i>Hannah Robinson</i>	<b>Evaluating the effects of two newly emerging plant pathogens on northern Aotearoa-New Zealand forests using an individual-based model</b> <i>Craig Simpkins</i>	<b>Who is really to blame for wilding conifers?</b> <i>Thomas Carlin</i>

1030-1100	<b>Morning Tea</b> in the Exhibition Area			
	<b>Symposium: Pekapeka, how we shape their world and they shape ours (continued)</b>	<b>Symposium: Indigenous forest restoration and protection, lessons from Aotearoa New Zealand's long conservation movement to address emerging threats (continued)</b>	<b>Symposium: Ecology in a Post-Truth World (continued)</b>	<b>Workshop: Hitchhiker's Guide to Writing Compelling Scientific Papers Quickly &amp; Easily</b>
	Chair: Kerry Borkin Room: Bay Trust Forum	Chair: Katerina Pihera-Ridge & Michael Bartlett Room: Skellerup	Chair: Thomas Carlin Room: WSP	
1100-1015	<b>Assessing the risk of wind farms on pekapeka-tou-roa (long-tailed bats <i>Chalinolobus tuberculatus</i>) and applying a suitable effects management regime</b> <i>Gerry Kessels</i>	<b>Searching for a pathogen in a needle-stack: screening historical specimens for <i>Phytophthora podocarp</i>, a recently described pathogen of tōtara</b> <i>Stuart Fraser</i>	<b>Community Outrage and Risk Estimation. Why 1080 is scary and how best to dispel myths and misinformation?</b> <i>Dale Williams</i>	<b>1100-1200</b> Room: Downer  <b>Part 1 – Writing Process</b> Facilitator: <i>Matt Biddick</i>  <b>1200-1245</b> <b>Part 2 – Publishing Process</b> Facilitator: <i>Cate Macinnis-Ng</i>  <i>Brought to you with support from The Journal of Applied Ecology</i>
1115-1130	<b>Whispers of the Night: Where could we broadcast ultrasound to repel pest moths from crops without affecting pekapeka?</b> <i>Jarod McTaggart</i>	<b>Local restoration genetics of <i>Syzygium maire</i>, a critically threatened New Zealand Myrtaceae: from species range to habitat patch</b> <i>Colan Balkwill</i>	<b>Potential uses of gene editing in ecology, public engagement and regulatory challenges</b> <i>Glenn Thorlby</i>	
1130-1145	<b>Dietary turnover time and diet-faeces trophic discrimination factor of an Aotearoa New Zealand bat determined through controlled feeding experiments</b> <i>Amandine Sabadel</i>	<b>Identifying suitable and accessible refugia to mitigate myrtle rust impacts on maire tawake in wetland forests</b> <i>Sarah Herbert</i>	<b>Perception and Reality: Building iwi momentum for 1080 and deer culling consent</b> <i>Ora Barlow &amp; Wiremu Wharepapa</i>	
1145-1200	<b>No Pulse Left Behind: opportunities for automated radio monitoring and tracking of bats</b> <i>David Pattemore</i>	<b>Kauri Survival and Growth in response to Co-Planting and Timing-of-Arrival treatments in Waipoua Forest, Northland</b> <i>Su Min Yeoh</i>		
1200-1215	<b>Time to re-think Auckland's bat scene? - Surprising results from year-round monitoring in the North-West suggests it is</b> <i>Neil Henderson</i>	<b>Comparative Analysis of Genomic Features in Fungal Pathogens Across Different Host Plants in New Zealand</b> <i>Yongning Li</i>	<b>How do we have community conversations about contested environmental issues?</b> <i>Marie McEntee</i>	
1215-1230	<b>Bridging Knowledge Gaps: Enhancing Collaborative Knowledge of Pekapeka and Conservation Efforts in South Auckland</b> <i>Natasha Bansal, Ben Paris &amp; Zion Flavell</i>	<b>Kahikatea (<i>Dacrycarpus dacrydioides</i>) Green Wheel Assessment update in Waikato</b> <i>Yanbin Deng</i>	<b>Panel Discussion</b>	
1230-1245		<b>Landscape context and edge effect impacts on plant community regeneration of restored indigenous forest sites</b> <i>Henry Morse</i>		

1245-1345	<b>Lunch</b> in the Exhibition Area + <b>Acoustic Localisation Workshop (1300 start)</b>
1345-1415	<b>Plenary 8: Simon Upton</b> ( <i>Parliamentary Commissioner for the Environment</i> ) Chair: Chris Bycroft; Room: Bay Trust Forum
1415-1445	<b>Plenary 9: Mike Joy</b> ( <i>Victoria University of Wellington</i> ) “The meta-crisis vs the climate-crisis – an ecologist’s view” Chair: Willie Shaw
1445-1530	<b>Conference Closing &amp; Karakia</b>

Friday, 29 November 2024

**Field Trips** - RSVP required

Option 1: Waimangu and Lake Rotomahana - A volcanic and geothermal experience.

Option 2: Lake Ōkātina and Tauranganui - A Journey through Ngāti Tarāwhai Ancestral Lands

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**Poster Presentations**  
**Poster Session: Tuesday 26 November 2024, 17.15-19.15**

P.01	Bridging Knowledge Gaps: Enhancing Community Awareness of Pekapeka and Conservation Efforts in South Auckland	Natasha Bansal
P.02	Factors driving insectivorous avian communities within indigenous and exotic forests	Victoria Brosnahan
P.03	Rotoehu Ecological Trust: a North Island kōkako success story, Bay of Plenty, Aotearoa New Zealand	Chris Bycroft
P.04	Deep-learning based classification of southern beech (Nothofagaceae) species using high-resolution UAV colour imagery	Brad Case & Binyao Yang
P.05	How far down can we go? Exploring multilayered insights into diadromous fish life histories through eye lenses	Alexandre Che
P.06	First Investigations of Diet and Habitat Niche Overlap in Three Deep-Sea Flying Squid Species	Samuel Clough
P.07	Nature in the City: a Hamilton city urban restoration programme	Toni Cornes
P.08	Moss traits mediate invasive hawkweed germination and early seedling growth	Nicola Day & Paul Bell-Butler
P.09	Bay of Plenty Regional Council Biodiversity Programme	Shay Dean
P.10	Investigating connectivity between current and future conservation priorities for deep-sea corals	Calum Doughty
P.11	Evaluating mice and cat responses to urban predator control strategies in Wellington, Aotearoa New Zealand	Tamara Encina
P.12	Fostering Belonging in STEM: The Role of Indigenous Knowledge in Ecosystem Restoration Education	Melanie Ercoli & Spencer Ingley
P.13	Investigating seed physiology of podocarp species to inform ecological restoration including direct seeding by drone to advance large-scale projects	Sarah Goldberg
P.14	Effect of calcium carbonate precipitation on phosphorus cycle	Wei Huang
P.15	Assessing the Ecological Impact of Pelargonium capitatum (rose-scented geranium) in Northern New Zealand Sand Dunes	Teresa Konlechner
P.16	Bryophyte-Angiosperm interactions: biotic filtering of tree fern epiphytes	Yiting Lei
P.17	Agricultural soil amendments affect decomposition	Deshaun Martin-Clarke
P.18	Multi-domain ecosystem typologies – towards a unified approach in Aotearoa New Zealand	James McCarthy
P.19	Developing technology-enhanced biodiversity indicators for agroecosystems in Aotearoa New Zealand	Samaneh Mosaferi
P.20	Assessing the impact of pine forest plantations on soil microbial communities	Nilukshi Muthuthanthrige
P.21	A conceptual framework for NbS selection and planning to enhance climate change resilience in agricultural landscapes	Thanh Nguyen
P.22	Spatial and Temporal Patterns of Soil Erosion in the Gisborne Region, New Zealand	Oghenemaro Elijah Ogwara
P.23	Effects of the long-term ecological restoration in the eutrophic plateau shallow lake — A case study of Dabokou, Lake Dianchi	Jizheng Pan

P.24	Exploring fungal diversity: the puāwaitanga of restored Wairarapa wetlands?	Teremoana Porter-rawiri
P.25	Wood You Believe It? Native and Exotic Ambrosia Beetles Unearthed	Andrew Pugh
P.26	Developing an automated process for counting birds flying into roost	Kathryn Ross
P.27	Broadscale Spatial Prioritisation for Marine Biodiversity Conservation using Marxan in Aotearoa New Zealand	Naif Rushdi
P.28	Investigating the Effect of Ecological Restoration on Nitrogen Partitioning in Wetland Ecosystems	Pearl Ruston
P.29	Determining the trophic discrimination factor for two hypercarnivores: stoat ( <i>Mustela erminea</i> ) and weasel ( <i>Mustela nivalis</i> ) to support stable isotope-based diet studies	Juliet Saul
P.30	Using infrared spectroscopy to determine the chemical composition of kauri leaf litter in kauri forests affected by dieback	Luitgard Schwendenmann, Marijke Struijk & Siqi Yang
P.31	Understanding the biodiversity of New Zealand's freshwater ecosystems through eDNA analysis	Judah Shantapriyan
P.32	Testing the long-term effectiveness of common restoration & monitoring techniques in a wetland restoration project	Charlie Tustin
P.33	Plant trait moderated priority effects on community-level carbon cycling	Janelle Veenendaal
P.34	Can olfactory and acoustic lures attract invasive predators in a wetland environment?	Jessica Wagner
P.35	The spatial and temporal patterns of forest succession following landslide disturbance in the Aotea and Coromandel regions	Elizabeth Williams
P.36	Te Mana o Rangitāhua: Transforming Aotearoa's environmental stewardship and leadership through an indigenous-led research	Sarah Withers
P.37	Testing of mistletoe propagation techniques and assessment of the state of loranthaceous mistletoes in Wellington	Benjamin Wright
P.38	Preliminary study on the contribution model of wind wave disturbance to the rise of total phosphorus in Meiliang Bay of Taihu	Gu Xiaozhi
P.39	Seabird plastic ingestion: species-specific patterns?	Timothy Yang
P.40	Te Ukaipo o Hinemoana. A spatial tool to support ocean decision making in Aotearoa New Zealand	Nidhi Yogesh
P.41	Colour changing flowers and pollinator vision	Angie Zhu
P.42	Distributions and ecology of alpine skinks and geckos in the Kahurangi National Park	Anna Zrinyi-Morgan

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