



NZES 2021 Conference Programme (v 28 Nov)

Monday 29 November 2021		
8:30 am	Housekeeping and welcome video	
8:35 am	Official Welcome including Mihi Whakatau and Guest VIP	
9:05 am	<p align="center">MĀTAURANGA MĀORI SYMPOSIUM (PART 1) Chair: Dion Pou <i>Sponsored by Manaaki Whenua Landcare Research</i></p> <p align="center">Keynote: Phil Lyver (Manaaki Whenua Landcare Research) Te Weu o te Kaitiaki – At the interface of mātauranga and ecology</p> <p align="center">Invited Speaker: Dan Hikuroa (The University of Auckland) Ecology and Mātauranga Māori</p>	
10:15 am	Morning break with networking	
Session	<p>1A: Symposium: Mātauranga Part 2: Connecting people within the environment Chairs: Dion Pou & James Brock <i>Sponsored by NorthTec</i></p>	<p>1B: Invasive Species Chairs: Chris Bycroft & Kate McAlpine <i>Sponsored by Department of Conservation</i></p>
10:35 am	<p>Te Kahuratai Painting - Tuia ki te rangi, tuia ki te whenua, tuia ki te moana, tuia ki te here tangata: Exploring how tohu of maramataka can guide Ngati Manu Hapū kaitiakitanga of awa and moana (30min)</p>	<p>Craig Morley - Targeting the gaps – a precise system to control predators in small inaccessible sites</p>
Talk times for this session will vary from 1B	<p>Taoho Patuawa – Common Allies: Maori and Science in contemporary collaboration</p>	<p>Holly Harris - Global change, invasive species, and thermal squeeze: ship rat (<i>Rattus rattus</i>) invasion of high-altitude Fuscospora forest over 40 years associated with warming winters</p>
	<p>Puke Timoti - Te Mauri o te Kererū (Cultural Keystone Species: a case study of the Kererū in Te Urewera)</p>	<p>Kathryn Ross & Nicolas Sandoval - Invasive birds: a new pest issue for mainland islands?</p>
	<p>Hera Davis - Seabirds as Tohu of Ocean State</p>	<p>Jamie McAulay - Be wary of the weasels: trophic level effects of the difference in diets of stoats and weasels in an alpine ecosystem</p>
	<p>Symon Palmer - Conceptualising pests through mātauranga: exploring whakataukī and early ethnographic material</p>	<p>Tess O'Malley - Possum Home Ranging under Intensive Management: the Importance of Habitat and Sex</p>
	<p>Te Amohaere Ngata-Aerengamate - Mātauranga Māori and anti-microbials, searching for new tools to control the spread of Kauri Dieback</p>	<p>Andrew Veale - Understanding mustelid dispersal through landscape genomics</p>
	<p>Sara Belcher - A Bi-cultural Ecological Assessment Tool</p>	<p>Joanna Green - Plant community soil legacies affect future invasions of pine and other exotic species</p>
	<p>Erica Hendrikse - The pathway to precision pest control: using genomics data for species-specific toxin development</p>	TBC
12:30 pm	Lunch break	

Session	2A: Animal Behaviour Chairs: TBC	2B: Spatial Ecology and Modelling & Contributed talks Chairs: Adrian Monks & TBC
1:00 pm	René Devenish - The effect of warming temperatures on the physiology, behaviour, and niche complementarity of pollinating insects	André Bellvé - Simulating collapse: An agent-based model of seabird colony dynamics
	Lydia McLean - Identifying ecological drivers of sexual dimorphism in kea (<i>Nestor notabilis</i>) using stable isotopes	Kate Heaphy - Developing functional ecological connectivity strategies based on landscape modelling
	Renee Denby - Effects of sample preservation on the ability of scent-dogs to detect invasive catfish	Zach Carter - Nowhere to hide: nationally prioritising management actions for invasive species
	Sahar Firoozkoochi - Worth a try or makes no sense? How birds deal with novel objects	Toby Elliott - The frost tolerance of seven New Zealand plant species and the relation to their southern limits
	Mehrnaz Tavasoli - Song discrimination by territorial male common blackbirds: Neighbour versus stranger	Heshani Edirisinghe - Predicting the invasion of <i>Harmonia axyridis</i> in New Zealand using citizen science data
	Tas Vamos - Individual differences in the food-storing behaviour of the North Island robin (<i>Petroica longipes</i>)	Taylor Hamlin - Do better hunters make better parents? Linking together the breeding and foraging ecology of Adélie penguins
	Florence Kelly - Testing the efficacy of rapid colour change in Raukawa geckos (<i>Woodworthia maculata</i>) as a potential defence against avian predators	Fevziye Hasan - Quantifying the Effects of Introduced Dung Beetles on Ecosystem Multifunctionality in Pasture Ecosystems
	Ariel-Micaiah Heswall - Plastic puzzle! Are seabirds ingesting specific colours of plastic?	Cate Macinnis-Ng - Climate change impacts on the biodiversity of Aotearoa - a stocktake
2:45 pm	Student Session (2 hours) Chairs: Amy Martin & Gyoungsu Lee The student session will be an opportunity to meet your peers, discuss your research in a quick, stress-free way and we'll celebrate the end of a session with a good old-fashioned zoom-based pub quiz.	

Tuesday 30 November 2021		
8:45 am	Keynote: Karen Pratt (Project Reef South Taranaki) Arohata te Ākau Taranaki ki te Tonga: 2015-2021 and beyond Chair: Victoria Metcalf <i>Sponsored by Northland Regional Council</i>	
9:15 am	NZES 2021 Awards Presentation Te Tohu Taiao, Ecology in Action, Barlow, and Outstanding Paper awards	
9:30 am	Morning break with networking	
Session	3A: Symposium: People and Nature in Cities Chairs: Stephen Hartley & Margaret Stanley	3B: Plant and Fire Ecology Chairs: Cate Macinnis-Ng & TBC
9:45 am	Robyn Simcock - Identifying and mitigating effects of road edges on biodiversity: a review	Tim Curran - Fighting fire with food: establishing crops, mahinga kai, rongoā and indigenous plants to reduce fire hazard in an increasingly fire-prone world
	Akshya Ilangovan - An overview of biodiversity management in a growing population dense urban city	Md Azharul Alam - Does shoot-level plant flammability change at different times of the year? Implications for fire management
	Bibishan Rai - Restoration trajectories of belowground biota across multiple trophic levels depend on environmental variation in urban forests	Bruce Burns - Questioning the familiar: an ecological research agenda for New Zealand ferns and fern allies
	Sandy Huang - Auckland street tree ecology: current status and future potential	Shanta Budha-magar - Dynamics of plant community flammability in Cockayne's Arthur's Pass Plots over nine decades
	Olivia Rooke- Devoy - Realising the Opportunities of Lawns for Urban Environmental Mitigation	Kendall Morman - Impacts of soil origin and fire on mycorrhizal fungi associated with hawkweeds and tall tussock

	Maggie MacKinnon - Architecture as Habitat: Enhancing urban ecosystem services using building envelopes	Matt McGlone - Why does New Zealand have so many gender dimorphic trees (and so few monoecious)?
	Ben Cooke & Cecily Maller - The politics of urban ecologies	Jon Sullivan - Introducing Wild Counts, a flexible method for high-frequency long-term ecological monitoring
		Cate Macinnis-Ng - Thirsty giants - water use strategies of kauri under artificial drought
	Discussion	Marley Ford - What are the mycorrhizal communities of <i>Lophomyrtus bullata</i> , an endemic threatened plant of New Zealand?
11:45 am	Dedicated Poster Session Speak directly with presenters in live time.	
12:15 pm	Lunch Break	
Session	4A: Symposium continued & Urban Ecology Chairs: Stephen Hartley & Bruce Burns	4B: Freshwater Ecology Chairs: Nick Ling & Graham Surrey
12:45 pm	Stephen Hartley - Tree wētā increase in the wake of Predator Free Wellington's Phase 1	Finnbar Lee - Spatial and temporal patterns in whitebait research: a semiquantitative review
	Margaret Stanley - Increased pressure on urban bird communities: escaped parrots	Brittany Earl - Influences of Non-native Brown Tree Frog, <i>Litoria ewingii</i> , on New Zealand Pond Systems.
	Sam Prystupa - Did the rodent eradication program impact the genetic health of an endemic bird species? A genomic investigation of the Lord Howe currawong	Abigail Kuranchie - Phytoplankton composition and water quality in ponds
	James Russell - Research into mouse ecology and eradication from Auckland Island	Olivia Hore - The lesser of two evils? How reduced flow and trout interact to influence non-migratory galaxiid populations
	Rosie Gerolemou - Exploring social capital in community conservation initiatives	Francis Burdon - Fatty acid biomarkers reveal landscape influences on linkages between aquatic and terrestrial food webs
	Ruby MacGillivray - Using a new monitoring framework for regional councils to assess the integrity of prioritised ecosystems in Hawke's Bay farmland	Kevin Simon - Temperature drives plastic and evolutionary change in a globally invasive fish
	George Perry - Mapping knowledge of New Zealand's ecosystems and knowledge produced by New Zealand's ecologists	Nicholas Ling - Red-eared slider turtles are spreading and breeding in Aotearoa/New Zealand
2:30 pm	NZES AGM - OPEN TO ALL MEMBERS (1 hour)	

Wednesday 1 December 2021		
8:45 am	Keynote: John Innes (Manaaki Whenua Landcare Research) - How ecosanctuaries and agencies can best work together	
Session	5A: Contributed papers on Birds Chairs: Des Smith + TBC <i>Sponsored by Wildlands</i>	5B: Applied ecology /management and monitoring (Part 1) Chairs: Carol West & Teresa Konlechner <i>Sponsored by Wildlands</i>
9:15 am	C.J. Ralph - A long-term study of an evolving community of birds in a New Zealand island: 38 years of landbird populations affected by reintroductions, restoration, succession and rat control	John Craig - Protecting biodiversity under the RMA / NBA
	Hector Pacheco-Fuentes - The consequences of experimental heat waves on mitochondrial metabolism in the Zebra Finch (<i>Taeniopygia guttata</i>)	Elizabeth de Jongh - Continuing decline in moth abundance in a New Zealand tussock grassland over 60 years
	Sarah Withers - The fascinating history of population divergence and connectivity in the titipounamu or rifleman (<i>Acanthisitta chloris</i>): implications for conservation management	Ashlee Cooper - Locating whitebait (<i>Galaxias argenteus</i>) eggs via canine scent-detection

	Olivia Burge - Will fenced ecosanctuaries act as 'arks' if PF2050 is a success?	Melissa Collins - Detecting Invasive Koi Carp from Water Samples Using Dogs
	Sam Rammell - Enhancing Ecological Citizen Science Projects - The Tripartite Model and The Great Kererū Count	Hannah Robinson - Uptake of artificial roosts by an urban population of long-tailed bats (<i>Chalinobus tuberculatus</i>) in Hamilton City
	Aimee Stubbs - A genomics approach to kea (<i>Nestor notabilis</i>) conservation management	Chris Bycroft - Sixteen years of monthly bird monitoring at the western end of Lake Rotoiti, Rotorua. Relevance of breeding seasons and implications for one-off surveys
10:30 am	Morning Tea break	
Session	6A: Restoration & reconciliation ecology & species interactions Chairs: Sandra Anderson & Rebecca Teele	6B: Applied ecology /management and monitoring (Part 2) Chairs: Jo McQueen & Susan Timmins <i>Sponsored by Wildlands</i>
10:45 am	John Craig - Valuing Nature: Balancing biodiversity and carbon rewards in restoration	Tony Payne - Northern grass skink (<i>Oligosoma polychroma</i>) utilisation of Artificial Cover Objects (ACO) over a one-year period, and the implications for monitoring and management
	Grace Mitchell - Urban forest restoration influences community composition and network structure of the soil microbiome	Lucie Jiraska - The effect of agricultural fungicides on non-target soil microbial communities with different fungicide exposure histories
	Simon Moore - Growth and survival of transplanted black beech (<i>Fuscospora solandri</i>) seedlings on Motuareronui (Adele) Island	Talia Brav-Cubitt - The development of a real-time PCR assay to detect kiwi DNA, and its application in a stoat feeding trial
	Colan Balkwill - Toward restoration genetics of maire tawake - a nationally critically endangered tree species	Dave Kelly - Hunting the underlying mechanism for masting: evidence from long term experiments
	Sze Wing Yiu - Ecology of large carnivores reintroduction: habitat selection of reintroduced lions and behavioural responses of their prey	Carl Dowd - Monitoring the success of community-initiated kiwi translocation
	Amy Martin - Evidence for mutualisms in New Zealand's brightly coloured truffle-like fungi	Carol Bedoya - Censusing of animals through acoustic individual identification
12:15 pm	Lunch Break	
12:45 pm	Special panel session: Mentoring early career ecologists in New Zealand - Sponsored by Department of Conservation Chair: Kate McAlpine The NZES mentoring scheme aims to help early career ecologists benefit from the work and life experiences of later career ecologists. This special conference session will include a panel of ecologists from various backgrounds talking about their experience being mentors and mentees and answering your questions. All welcome!	
Session	7A: Large-scale ecology and land management Chairs: John Craig & Simon Moore	7B: Ecological restoration of dryland systems & Disease Ecology Chairs: Tim Curran & Rebecca Teele
1:45 pm	James McCarthy - National-scale mapping of potential floral resources for honey bees in Aotearoa	Debra Wotton - Once in a lifetime: why is recruitment so rare in dryland floodplains?
	Henry Morse - Modelling movement corridors for endemic and invasive species in the Greater Wellington Region	Rebecca Teele - Barriers and responses to achieving dryland restoration in the Queenstown Lakes District
	Oscar Yukich Clendon - How do environmental conditions influence fruit crop characteristics in <i>Beilschmiedia tawa</i> ?	Danielle Middleton - The ecological and immunological relationships between <i>Salmonella</i> and tuatara
	James Den Uyl - Soil Temperature and Moisture Modify Soil Respiration's Response to Warming Differentially Along Elevational Gradient	Jessica Patiño Pérez & Heshani Edirisinghe - Prevalence of skin lesions in a population of bottlenose dolphins in New Zealand
	Yanbin Deng - Significant Natural Areas Inventory for Ecological Restoration and Environmental Impact Assessment	TBC
3:00 pm	Guest Speaker Carolyn King Closing Session: Photo Competition Awards presented by Manaaki Whenua Landcare Research Student Conference Awards	
3:30 pm	Conference Close	

POSTER PRESENTERS - A dedicated session will be held at 11:45 on Tuesday 30 November

Poster Title	Presenter
Can audio recorders replace traditional bird monitoring methods for bird richness estimates?	Sara Coutinho
Will kauri survive: Resilience of ancient kauri populations to the modern world	Toby Elliott
Effects of stress on singing performance of common mynas	Juliane Gaviraghi Mussoi
Improving hedgehog (<i>Erinaceus europaeus</i>) control tools: relative attractiveness of potential lures	Brittany Graham
Are wētā (Orthoptera: Rhaphidophoridae and Anostostomatidae) and sheet-web spiders, <i>Cambridgea</i> spp. (Araneae: Desidae), potential indicators of mammalian predators?	Taylor Kees
Context and Implementation of Significant Natural Areas: an opportunity to improve policy settings. A case study within the WCC area	Florence Kelly
Bryophyte community composition is influenced by moisture, light and lichen abundance in upland forest habitats near the Lewis Pass	Wendy Kentjens
Ship-borne commensal rats and mice as pre-colonial historians of New Zealand	Carolyn King
Community composition and richness of bryophytes varies across stream microhabitats	Anna Meban
Determining the composition of <i>Rattus</i> species in Whangarei: Implications for urban pest management	Dai Morgan
Historical habitat modification, not the distance from road, determines weed distribution up the Nina Valley track, Lewis Pass	Ruby Ross
How do canopy gaps influence ground-dwelling invertebrates in beech forests of New Zealand?	Maryanne Walker
Effects of grazing treatments on alpine tall tussock grasslands	Hannah Wood



Major Sponsors



Supporters



Exhibitors

