



NEW ZEALAND  
ECOLOGICAL  
SOCIETY

## 2022 Conference

University of Otago, New Zealand  
28 November – 1 December 2022

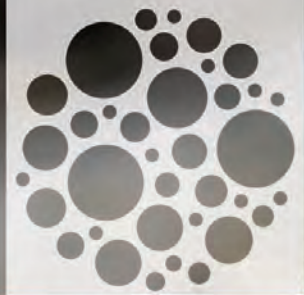


Photo: James Reardon

# New Zealand Ecological Society Conference

28 November - 2 December 2022 | Ōtepoti Dunedin, University of Otago

*He Uru Kahika ki te Wao - CONNECTIONS NEW ZEALAND*

### PRE-CONFERENCE DAY- Monday, 28 November 2022

0900-1730	<b>Student Day</b> (Burns Building) <i>Brought to you with support from Wildlands</i>
1730-1900	<b>Icebreaker</b> (Te Wao Nui, Business School)

### DAY 1 - Tuesday, 29 November 2022

0800	Registration opens (ISB Link, University of Otago - near entrance to library)			
<b>Venue</b>	<b>Castle 2</b>	<b>Session 1 – Chair: Yolanda van Heezik</b>		
0845-0930	<b>Mihi Whakatau Hoani Langsbury - Kāi Tahu Kaitiaki &amp; Opening &amp; Welcome - Debra Wotton, NZ Ecological Society President</b>			
0930-1030	<b>Plenary: Working Together for Ecology and Conservation</b> The East Otago Taiāpure: Lessons from community-led restoration of connected fishery ecosystems <b>Prof. Chris Hepburn – University of Otago</b>			
1030-1100	<b>Morning Tea in The Link</b>			
<b>Venue</b>	<b>Castle 2</b>	<b>Castle 1</b>	<b>Burns 1</b>	<b>Burns 2</b>
<b>Session</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1100-1230	<b>Symposium: Coastal People Southern Skies</b> Chair: Chris Hepburn	<b>Symposium: Opportunities and challenges for conservation translocations in Aotearoa New Zealand</b> Chairs: Zoe Stone & Kevin Parker	<b>Symposium: Ecosystem impacts of tree pathogens</b> Chair: Andrew Barnes Supported by Ngā Rākau Taketake	<b>General Session</b> Chair: Tara Murray
1100-1115	<b>Daniel Pritchard</b> - The Monitoring Tumu within Coastal People Southern Skies	<b>Kevin Parker</b> - Structured decision-making to guide values-based conservation of the critically endangered Kuaka/Whenua Hou Diving Petrel	<b>Alastair Jamieson</b> - Waitākere Ranges kauri population health monitoring	<b>Anusha Beer</b> - Cross-disciplinary collaborations bridge the gap in our knowledge of parasite diversity in New Zealand
1115-1130	<b>Peter Russell</b> - Marine Microclimates – Can local-scale oceanographic processes provide refuge against climate stressors?	<b>Elizabeth Parlato</b> - To translocate or not to translocate? Population modelling to support decision-making for the Chatham Islands black robin	<b>Michael Bartlett</b> - Evidence for declining Lophomyrtus tree health and reproductive potential due to repeated attack by myrtle rust	<b>Elizabeth Elliot Noe</b> - Exploring motivations and barriers to nature conservation on dairy farms
F1130-1145	<b>Gaya Gnanalingam</b> - Pāua. Restoring a Cultural Icon	<b>Zoe Stone</b> - Beyond the fences: how does dispersal influence success of reintroductions to connected mainland reserves	<b>Richard Flint Hughes</b> - Impacts of Rapid Ohia Death in forests of Hawaii	<b>Sophie Fern</b> - Non-human charisma and the New Zealand conservation system.
1145-1200	<b>William Rayment</b> - Parāoa of the South Pacific: new perspectives on connectivity among sperm whale populations	<b>Hoani Langsbury</b> - Ensuring the future of mahinga kai through Treaty Partnership	<b>Isaar Shama</b> - Effect of kauri dieback on leaf litter nutrient concentrations	<b>Symposium: Invertebrate Ecology and Conservation starts</b> <b>Emma Curtin</b> - The extraordinary story of an unassuming beetle: The past, present and future of the Cromwell Chafer Beetle
1200-1215	<b>Karen Greig</b> - Connecting with our coastal heritage	<b>Kevin Parker</b> - Quantifying impacts of stoat and cat incursions on reintroduced bird populations in a predator-fenced wildlife sanctuary	<b>Jaynie Yang</b> - Fine root production and turnover in kauri-dominated forests affected by <i>Phytophthora agathidicida</i>	
1215-1230	<b>Rose Richards</b> - Falafolaloha – spreading the mats of welcome and belonging for Pacific families	<b>Caio F Kenup</b> - Determining optimal monitoring strategies for translocated populations	<b>Panel Discussion with Symposia presenters</b>	<b>Elizabeth De Jongh</b> - Endemic moth fauna declines 82% over 60 years in New Zealand despite constant land use
1230-1330	<b>LUNCH in The Link</b>			



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Venue	Castle 2	Castle 1	Burns 1	Burns 2
Session	6	7	8	9
1330-1500	<i>Symposium: Partnerships for Ecology and Conservation: case studies and lessons from successful partnerships</i> Chair: Hoani Landsbury <i>Supported by Manaaki Whenua – Landcare Research</i>	<i>Symposium: Opportunities and challenges for conservation translocations in Aotearoa New Zealand (continued)</i> Chairs: Zoe Stone & Kevin Parker	<i>Symposium: Ecosystem impacts of tree pathogens (continued)</i> Chair: Marijke Struijk	<i>Symposium: Invertebrate Ecology and Conservation</i> Chair: Sheri Johnson
1330-1345	<b>Roseanna Gamlen-Greene</b> - Frogs, bogs and people: Both research and the community benefits from science outreach on Haida Gwaii, a remote archipelago in Canada	<b>Tara Murray</b> - The little 'problems': Unique challenges and opportunities in threatened invertebrate translocations	<b>Toby Elliott</b> - Will kauri survive: Resilience of ancient kauri populations to the modern world	<b>Danilo Hegg</b> - The conservation status of giant wētā ( <i>Deinacrida</i> spp.) in the South Island
1345-1400	<b>Sarah Herbert</b> - Kataore: towards an iwi-led survey and monitoring programme for lizard biodiversity	<b>Grant Norbury</b> - The role of science in re-establishing indigenous lizards at Mokomoko Dryland Sanctuary, Central Otago	<b>Annie McElvein</b> - Framework and visualization of linkages between landscape and soil characteristics in diseased kauri forest	<b>Olivier Ball</b> - Conservation of New Zealand's terrestrial amphipods: the state of play
1400-1415	<b>Rose Hanley-Nickolls</b> - Mauri Ora Murihiku: Biodiversity Action on the Ground in Southland	<b>Clement Lagrue</b> - Rare limestone plants – when translocation becomes the only solution	<b>James McCarthy</b> - The functional vulnerability of Aotearoa's woody plant communities to the loss of Myrtaceae	<b>Jennifer M Jandt</b> - Insect Conversations: Engaging the Community about Insect Conservation
1415-1430	<b>Katerina Pihera-Ridge</b> - Oranga Tangata, Oranga Taiao: Wellbeing of People and Nature	<b>Finley Johnson</b> - Supporting biocultural connections in conservation translocations	<b>Film</b> - Myrtle rust, the silent killer (provided by Geoff S. Pegg, Queensland Department of Agriculture & Fisheries)	<b>Tara Murray</b> - The other 80%: Understanding the consequences of the predator free movement for terrestrial invertebrates
1430-1445	<b>Ben Te Aika</b> - Indigenous research partnerships	<b>Phillip Seddon</b> - Future directions in Conservation Translocations	<b>Panel Discussion with Symposia presenters</b>	<b>Aaron Bertoia</b> - Introduced mammalian predators shape the alpine invertebrate community
1445-1500	<b>Discussion</b>	<b>Open Forum</b>		<b>Tōrea Scott-Fyfe</b> - Introduced predators influence microhabitat use of large-bodied alpine invertebrates in Fiordland and Rakiura
1500-1530	<b>Afternoon Tea in The Link</b>			
Session	10	11	12	13
1530-1700+	<i>Symposium: Bioacoustics for New Zealand Wildlife: Applications and Challenges</i> Chair: Zohara Rafi	<i>Symposium: Restoration of New Zealand subantarctic islands</i> Chair: James Russell	<i>General Session: Plants</i> Chair: Angela Brandt	<i>Symposium: Invertebrate Ecology and Conservation (continued)</i> Chair: Jenny Jandt
1530-1545	<b>Laura Molles</b> - The real-world magic of extendable ears	<b>Keith Broome</b> Restoration of New Zealand SubAntarctic Islands	<b>Aimee Pritchard</b> - Bryophytes as indicators of exotic plantation forest suitability for native regeneration	<b>Luna Thomas</b> - What effects do mammalian predators have on <i>Geodorcus helmsi</i> populations?
1545-1600	<b>Ruth Bollongino</b> - Acoustic monitoring of forest birds on a landscape scale	<b>Stephen Horn</b> - Overview of Pest free Auckland Island	<b>Katrijn De Bock</b> - Social parasitism in plants	<b>Madeline Pye</b> - Big numbers of small wētā: Nationally Critical Tekapō ground wētā ( <i>Hemiandrus furoviarius</i> ) benefit from predator-exclusion fence
1600-1615	<b>Carol L. Bedoya</b> - Acoustic censusing of avian species using deep clustering	<b>Finlay Cox</b> - Research into feral pig eradication on Auckland Island	<b>Yanbin Deng</b> - Kahikatea Green Wheel – Waikato field trials and implementation	<b>Priscilla Wehi</b> - Indigenous plant naming and experimentation: finding out more about tree wētā and their homes in New Zealand forests
1615-1630	<b>Zohara Rafi</b> - Temporal subsampling of passive acoustic data for improved detection of Australasian bittern, a crepuscular and cryptic bird	<b>Rachael Sagar</b> - The ecology of and pathway to eradication of feral cats from Auckland Island	<b>Luke Liddell</b> - The Relationship between Polyploidy and Leaf Traits in New Zealand Angiosperms	<b>Greer Sanger</b> - Which nettle is best? Preference and performance of Kahukura on native and introduced nettle in New Zealand
1630-1645	<b>Moira Pryde</b> - Tools to develop a monitoring programme to measure changes in trends of bat acoustic activity in response to predator control within native forest.	<b>Rachael Sagar</b> - Research into mouse ecology and eradication from Auckland Island	<b>Su Min Yeoh</b> - Combating Phytophthora of kauri dieback: Harnessing plant-microbe interactions through companion planting field trial in Waipoua Forest	<b>Lisa Danuser</b> - The influence of the spatial distribution of microhabitat on invertebrate community composition in a New Zealand tussock grassland
1645-1700	<b>Roald Bomans</b> - Bioacoustic monitoring of lower North Island bird communities before and after aerial application of 1080	<b>Araceli Samaniego</b> - Learning from failure to improve rodent eradication planning: the case of Gough Island	<b>Kahurangi Cronin</b> - Epiphytism: Life history of <i>Platyserium bifurcatum</i>	<b>Rebecca Le Grice</b> - Regional patterns in coastal Diptera communities with an exploration of issues important to coastal conservation



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1700-1715	<b>Stephen Marsland</b> - Animal-borne acoustic recorders can inform consistent abundance estimates based on passive acoustic monitoring	<b>James Russell</b> - The global contribution of invasive vertebrate eradication as a key island restoration tool	<b>Sheri Johnson</b> - Who is Pollinating our Rare Limestone Plants in the Waitaki?	<b>Nicola Sullivan</b> - Spider biodiversity in crop orchard systems   Te kanorau koiora o te pūngāwerewere i roto i ngā pūnaha hauropi huanga kai
1715-1730	<b>Michael Maggs</b> - Acoustic localisation: a simplified workflow			<b>William Brockelsby</b> - A restoration ecology conundrum: unintended consequences of a successful flax weevil ( <i>Anagotus fairburni</i> ) translocation to Mana Island and importance of its pathogen <i>Beauveria pseudobassiana</i>
1730-1900	Poster Session in The Link – beverages and canapes provided			

## DAY 2 - Wednesday, 30 November 2022

0745	Registration opens			
Venue	Castle 2	Session 14 Chair: Stephanie Godfrey		
0815-0830	Day 2 Welcome			
0830-0930	<b>NZES Ecology in Action Award Recipient</b> Small mice create big problems: why Predator Free New Zealand should include house mice and other pest species <b>Araceli Samaniego</b> – <i>Manaaki Whenua</i>			
0930-1030	<b>Plenary: Predator-free and Beyond</b> Moonshots and J curves: misleading concepts for a predator-free New Zealand <b>Grant Norbury</b> – <i>Manaaki Whenua</i>			
1030-1100	Morning Tea in The Link			
Venue	Castle 2	Castle 1	Burns 1	Burns 2
Session	15	16	17	18
1100-1230	<b>Symposium: PF2050 and beyond</b> Chair: Dan Tomkins	<b>Symposium: Palaeoecology of Aotearoa New Zealand</b> Chair: Nic Rawlence	<b>Symposium: Aotearoa in the dark - effects and mitigation of artificial light at night</b> Chair: Bridgette Farnworth	<b>General Session: Social &amp; Policy</b> Chair: Angela Brandt
1100-1115	<b>Carolyn King</b> - Ecological insights, recent learnings and ongoing challenges	<b>Nic Rawlence</b> - The contribution of kūrī (Polynesian dog) to the ecological impacts of the human settlement of Aotearoa New Zealand	<b>Ellen Cieraad</b> - Aotearoa in the dark? New Zealand's changing night-time environment	<b>Fiona Hodge</b> - Environmental limits & targets in the new resource management system: how the science to policy process informs future research needs
1115-1130		<b>Alan Tennyson</b> - Newly discovered ecological gaps: six more New Zealand Holocene bird extinctions	<b>Michelle Greenwood</b> - Understanding the impact of LED streetlight conversions on flying freshwater insects	<b>Matthew J Larcombe</b> - We need to rethink ecosourcing if we want climate resilient ecological restoration in Aotearoa
1130-1145	<b>Andrew Veale</b> - Landscape genomics for Predator Free 2050	<b>Jo Carpenter</b> - Palaeoecological and historical observations of kākāpo reveal shifting drivers of decline over 800 years	<b>Jessica Schofield</b> - The influence of colour temperature and distance of LED lighting near rivers on adult freshwater insects	<b>Brent Lovelock</b> - The social dimensions of wild conifer and Russell lupin control- Te Manahuna Mackenzie Basin
1145-1200		<b>Michael Knapp</b> - Pleistocene environmental change and the "australification" of the New Zealand bird fauna	<b>Bridgette Farnworth</b> - Light at night deters iconic invertebrates: male, but not female tree wētā avoid nocturnal illumination	<b>Valentina Dinica</b> - Volunteering and partnerships - understanding the options and boundaries of contributions from tourism and recreation actors in Protected Areas
1200-1215	<b>Maggie Nichols</b> - What is predator elimination, and what does it look like?	<b>Michael Knapp</b> - Impacts of Pleistocene environmental change on New Zealand birds	<b>Ellen Cieraad</b> - Artificial light at night affects the interactions between plants and insect herbivores	<b>Gabriela Baron</b> - Designing meaningful and innovative solutions in environmental conservation: The new role of Designers at UoA
1215-1230		<b>Anne Schlesselmann</b> - No need for refugia: Range expansion of open-habitat specialists during glaciation	<b>Titia Schamhart</b> - Artificial light at night: does it affect long-tailed bat activity?	
1230-1330	LUNCH in The Link			
1250-1350	NZ Ecological Society AGM (Venue: Castle 2)			



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Venue	Castle 2	Castle 1	Burns 1	Burns 2
Session	19	20	21	22
1400-1530	<i>Symposium: PF2050 and beyond (continued)</i> Chair: Clement Lagrue	<i>Symposium: Palaeoecology of Aotearoa New Zealand (continued)</i> Chair: Nic Rawlence	<i>Symposium: Aotearoa in the dark - effects and mitigation of artificial light at night (continued)</i> Chair: Ellen Cieraad	<i>General Session: Biodiversity</i> Chair: Travis Ingram
1400-1415	<b>Kyla Johnstone</b> - Invasive species control selects for shy survivors	<b>Jacqui Vanderhoorn</b> - QUAVONZ: The QUaternary Vegetation of New Zealand Database	<b>Ariel-Micaiah Heswall</b> - Where are they landing? Mapping seabird fallout from artificial lighting in Auckland, New Zealand	<b>Matheus Maximilian Ratz Scoarize</b> - Beta diversity of aquatic fungi in subtropical urban and rural streams
1415-1430	<b>Nicholas Foster</b> - Advancing invasive small mammal elimination in upland areas: challenges and opportunities	<b>David Hawke</b> - Growing a community's sense of "heritage": A former matai forest from Ōtautahi Christchurch and its nitrogen status, AD 860-1430	<b>Titia Schamhart</b> - Does white and blue wavelength filtered light influence the activity of rural long-tailed bats	<b>Travis Ingram</b> - Freshwater fish distributions on Rēkohu/Chatham Island
1430-1445	<b>Jenny Dent</b> - Optimising bait consumption by ship rats	<b>Kerry Walton</b> - Application of palaeogenetic techniques to historic mollusc shells reveals phylogeographic structure in a New Zealand abalone	<b>Steve Butler</b> - The pathway to awareness of Light Pollution in Aotearoa New Zealand.	<b>Simon Moore</b> - Conceptual Ecosystem Modelling as a management planning tool - useful or just a mouthful?
1445-1500	<b>Winifred Long</b> - Trapping Stoats and Rats: Lure Preference and Optimising Lure Replacement and Trap Servicing Frequency	<b>Discussion</b>	<b>John Hearnshaw</b> - Light pollution: a unified global solution is needed for a global environmental problem	<b>Jeffrey Hanson</b> - Optimally managing threats to biodiversity across large scales
1500-1515	<b>Nick Mulgan</b> - Measuring Stoat Detectability with Poisoned Ship Rats		<b>Discussion</b>	<b>Matheus Maximilian Ratz Scoarize</b> - The species-specific trophic discrimination factors from experiments and universal values change the trophic position of fish
1515-1530	<b>Elaine Murphy</b> - Developing a ready-made PAPP bait for landscape stoat control			<b>Sebastian Steibl</b> - Biodiversity patterns on atolls: insights into community assembly and ecosystem resilience
1530-1545	<b>Special Presentation from Tourism New Zealand (Burns 1)</b> <b>Michael Stokoe</b> Could you be our next bid champion? We're calling for you			<b>Andrew Barnes</b> - The Importance of Food Web Architecture for Ecosystem Functioning Across Trophic Levels and Ecosystems
1530-1600	<b>Afternoon Tea in The Link</b>			
Venue	Castle 2	Castle 1	Burns 1	Burns 2
Session	23	24	25	26
1600-1700+	<i>Symposium: PF2050 and beyond (conclusion)</i> Chair: Clement Lagrue	<i>Symposium: Pollination focused Plant-Animal Interactions Symposium</i> Chair: Max Buxton	<i>General Session: Birds</i> Chair: Scott Jarvie	<i>General Session: Fire / Monitoring</i> Chair: Georgina Pickerell
1600-1615	<b>Cathy Nottingham</b> - Effects of landscape composition and configuration on feral cats in agricultural ecosystems	<b>Kevin Burns</b> - Conspicuous, green flowers are an honest signal of nectar rewards in tree fuchsia ( <i>Fuchsia excorticata</i> , Onagraceae)	<b>Christopher Bycroft</b> - Water bird surveys in the upper Waikato River and Lake Ohakuri and Lake Arapuni: 2012-2019	<b>Samantha Reading</b> - Can flammability be predicted from sister taxa?
1615-1630	<b>James Reardon</b> - When cats rats, and mustelids are away, the mice will play: The risks and challenges of mesopredator release of mice in Aotearoa New Zealand ecosystems	<b>René Devenish</b> - Will foraging pollinators take greater risks in a warming world?	<b>Eliana Ramos</b> - Should I stay or should I go? Pair bond status is influenced by male nesting effort in North Island Brown Kiwi	<b>Chris Muller</b> - The Future of Wildlife Monitoring – Evaluating the Usefulness of Drone and Aerial Wildlife Tracking Methods
1630-1645	<b>Jo Monks</b> - PF2050 beyond the birds: lizard population trends in a landscape of stoat, possum and rat control	<b>Aiko Lignon</b> - Pollinator's microbes and the fruit microbiome interactions	<b>Brent Barrett</b> - Keeping kea safe around new pest control innovations	<b>Caitlyn Friedel</b> - Developing a low-impact population monitoring method for goldstripe gecko ( <i>Woodworthia chrysosiretica</i> ) in Bushy Park Tarapurui
1645-1700	<b>Matthew Hellicar</b> - Intervening in living ecosystems: How do we know we're helping?	<b>Sandra Anderson</b> - The downside of 'making do': consequences of second-rate pollination and dispersal services for native plants	<b>Cristabel Godoy</b> - Relationship between plasmodium infection and the behaviour response at handling in tieke ( <i>Philesturnus carunculatus rufusater</i> )	<b>Isabel Castro</b> - Smile! You are on camera: use of trail cameras to estimate the abundance of a cryptic, unmarked species, Stewart Island kiwi/Rakiura tokoeka



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1700-1715		<b>Janice Lord</b> - Saturation or stimulation? The effect of mast flowering on pollinators	<b>Stephen Marsland</b> - Growth Curve Analysis for the Monitoring of Kakapo Chicks	<b>Joseph Altobelli</b> - The suitability of radio telemetry techniques for monitoring a New Zealand frog species ( <i>Leiopelma hamiltoni</i> )
1715-1730		<b>Dave Kelly</b> - Futile selfing revisited: kowhai inbreeding depression after 23 years	<b>Sam Rammell</b> - Enough kai for kākāpō? Estimating the abundance of mature rimu in Puketahā	<b>Samantha Reading</b> - How well do traits actually predict flammability? Cautionary tales for guidelines on low flammability plantings, based on a systematic review
1730-1745		<b>Anne Gaskett</b> - Robustness of pollinators against orchid sexual deceit and ghosts of mutualisms past	<b>George Perry</b> - Effect of multiple stressors on the population viability of a threatened endemic waterfowl, pāteke ( <i>Anas chlorotis</i> )	
1745-1800			<b>Rachel Hufton</b> - Makarore Otanenui Catchment - A Recovery Site For Whio	

## DAY 3 - Thursday, 1 December 2022

0900	Registration opens			
<b>Venue</b>	<b>Castle 2</b>	<b>Session 27</b> Chair: Philip Seddon		
0915-0930	<b>Day 3 Welcome</b>			
0930-1030	<b>Plenary: Ecology in a Warming World</b> Sounding the alarm: Biological heritage of Aotearoa under threat from climate change <b>Cate Macinnis-Ng</b> – <i>University of Auckland</i>			
1030-1100	<b>Morning Tea in The Link</b>			
<b>Venue</b>	<b>Castle 2</b>	<b>Castle 1</b>	<b>Burns 1</b>	<b>Burns 2</b>
<b>Session</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
1100-1230	<b>Symposium: Bridging the gap: integrating conservation genomics into species management</b> Chair: Bruce Robertson	<b>Symposium: Urban Ecology: People and nature</b> Chair: Margaret Stanley	<b>Symposium: Environmental Weeds</b> Chair: Kate McAlpine Supported by BioHeritage National Science Challenge	<b>General Session: Climate</b> Chair: Gretchen Brownstein
1100-1115	<b>Anika Correll Trnka</b> - Population Genomics of the Threatened New Zealand Storm Petrel	<b>Daniel Richards</b> - Global variation in the contributions of urban nature to people	<b>Kate McAlpine</b> - Seedling shade tolerance of eight invasive woody weed species	<b>Thomas Carlin</b> - Pre-adaptation to antipodean climates allows invasive weeds to thrive in Aotearoa
1115-1130	<b>Johanna Kann</b> - Conservation genomics of mohua ( <i>Mohoua ochrocephala</i> )	<b>Daniela Biaggio</b> - Urban Ecology Management- weaving connections between knowledge, places, and people to make conservation easy and meaningful	<b>Debra Wotton</b> - Does weed control benefit native plants in limestone ecosystems?	<b>James Den Uyl</b> - The impacts of a warming climate and altered plant communities on soil respiration in globally distributed alpine ecosystems
1130-1145	<b>Laura Duntsch</b> - Genomic inbreeding and its fitness consequences for the hihi, a threatened endemic passerine of Aotearoa New Zealand	<b>Rebecca Stanley</b> - Pest Free Auckland: Engaging, involving and enabling communities to lead restoration	<b>Zoe Lunniss</b> - The parasitic connection of <i>Cuscuta campestris</i> to conservation	<b>Indira Leon</b> - The effect of long-term warming and plant species removal on an New Zealand alpine ecosystem
1145-1200	<b>Laura van Galen</b> - Mapping mycorrhizae with eDNA	<b>Yolanda van Heezik</b> - A rapid assessment technique for evaluating biodiversity to support accreditation of private gardens	<b>Helen McCaughan</b> - Cape pondweed control: three South Island examples	<b>Kelvin Lloyd</b> - Will ephemeral wetlands cope in a changing climate?
1200-1215	<b>Ciaran Campbell</b> - Genome-wide analysis resolves the radiation of New Zealand's freshwater Galaxias vulgaris complex and reveals a candidate species obscured by mitochondrial capture	<b>Discussion</b>	<b>Angela Brandt</b> - Helping to inform decisions about managing multiple plant species invasions when their interactions influence their impact	<b>Jean Davis</b> - Climate Change and Fisheries Management in New Zealand
1215-1230	<b>Imogen Foote</b> - A whole-genome approach to resolve the genetic structure of Antipodean and Gibson's albatross populations		<b>Andrea Clavijo McCormick</b> - A bird's-eye view of weed management in Aotearoa New Zealand	
1230-1330	<b>LUNCH in The Link</b> <b>+ Workshop @1245:</b> Introduction to the Faunatech range of products including Wildlife Acoustics recorders and software and Reconyx Wildlife Cameras <i>Brought to you with support from Faunatech australian - A Wildlife Acoustics Company</i>			



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Venue	Castle 2	Castle 1	Burns 1	Burns 2
Session	32	33	34	35
1330-1500	<b>Symposium: Bridging the gap: integrating conservation genomics into species management (continued)</b> Chair: Ludovic Dutoit	<b>Symposium: Urban Ecology: People and nature (continued)</b> Chair: Rebecca Stanley	<b>Symposium: Environmental Weeds (continued)</b> Chair: Kate McAlpine Supported by BioHeritage National Science Challenge	<b>General Session: Invasive species</b> Chair: Travis Ingram
1330-1345	<b>Colan Balkwill</b> - Toward restoration genetics of <i>maire tawake</i> - a nationally critically endangered tree species	<b>Abigail Cunninghame</b> - Ecological condition and use of greenspaces in primary schools	<b>Thomas Carlin</b> - Wilding conifers in a warming world: potential problems with persistent pines	<b>James Griffiths</b> - Patterns of ship rat population recovery after aerial 1080 application: influence of treatment size, shape and geography
1345-1400	<b>Sara Belcher</b> - Removing the Sting: Assessing the cultural and ecological impacts of CRISPR technology for invasive wasp control	<b>Margaret Stanley</b> - Does urban backyard trapping benefit both bird and human communities?	<b>Paul Barrett</b> - Could metabolomic profiling of host plant biochemistry improve establishment and effectiveness of weed biocontrol agents?	<b>Stephen Hartley</b> - The influence of seedfall, rats and weather on populations of New Zealand forest birds, expressed as multi-factor density impact functions.
1400-1415	<b>Michael Knapp</b> - Exploration of species-level fish biodiversity in Fiordland using eDNA highlights need for more reference data	<b>Kat Grayston</b> - Tracking hedgehogs in the urban environment of the Wellington suburbs using GPS data loggers	<b>Teresa Konlechner</b> - The Rakiura Dune Restoration Programme: lessons learned from 21 years of operations, monitoring and research	<b>Claire Adeline Dowsett</b> - He poaka to matou taonga. "Those pesky swine!"
1415-1430	<b>Discussion</b>	<b>James Brock</b> - Auckland urban epiphytes – a nexus of invasion?	<b>Julie Deslippe</b> - Climate x weed interactions as drivers of change in alpine ecosystems	<b>Brent Lovelock</b> - Koi carp: The social dimensions of managing invasive coarse fish in the Waikato
1430-1445		<b>Christine Sumner</b> - "I want you to want me": Implications for cat choices and containment in Tāmaki Makaurau Auckland	<b>Andrea Clavijo McCormick</b> - Plant volatiles-mediated interactions between introduced and native species	<b>Jane Kitson</b> - Exploring the biocultural roles of introduced species in Aotearoa and internationally
1445-1500			<b>Stu Hayes</b> - The social-ecological acceptability of Russell lupin (as depicted on Instagram) and implications for management	
1500-1530	<b>Afternoon Tea in The Link</b>			
Venue	Castle 2			<b>Session 36</b> Chair: Phillip Seddon
1530-1630	<b>NZES Plenary: Te Tohu Taiao Award Recipient Presentation</b> The role of science in wildlife conservation <b>Doug Armstrong</b> – Massey University <i>Brought to you with support from Boffa Miskell</i>			
1630-1700	<b>Conference close: Student Prizes plus Manaaki Whenua Landcare Research Photo Competition Awards</b>			
1845-2300	<b>Conference Dinner at Toitū Otago Settlers Museum</b> <i>The conference will conclude at the end of the last day with the NZES 2022 Conference Dinner which is being held at Dunedin's museum of social history situated adjacent to the iconic train station.</i>			

## OPTIONAL FIELD TRIPS - Friday, 2 December 2022

0730-1830	<b>Field Trip 1:</b> Tautuku & Lenz Reserve, Catlins ( <i>RSVP Required</i> )
0900-1400	<b>Field Trip 2:</b> Guided Tour at Orokonui Ecosanctuary ( <i>RSVP Required</i> )
0900-1530	<b>Field Trip 3:</b> Karitāne ( <i>RSVP Required</i> )
0900-1530	<b>Field Trip 4:</b> Otago Peninsula ( <i>RSVP Required</i> )
0900-1500	<b>Field Trip 5:</b> Te Nohoaka o Tukiauau / Sinclair Wetlands ( <i>RSVP Required</i> )





# New Zealand Ecological Society Conference

Ōtepoti Dunedin, University of Otago | 28 November - 2 December 2022

## POSTER PRESENTATIONS

Poster #	Poster Title	Presenter
01	Seed retention times in New Zealand's largest gecko, <i>Hoplodactylus duvaucelii</i> "northern", and implications for seed dispersal	Hayley Alena
02	Detection and habitat associations of katipō ( <i>Latrodectus katipo</i> ) in Bream Bay, Northland, New Zealand	Olivier Ball
03	Short-term response of vegetation to fire in grasslands is predictable despite long-term community change, Lake Ōhau	Nicola Day
04	Strengthening the ecological scientific foundation of regulatory frameworks - integrating 'biodiversity/conservation' and 'environmental' perspectives	Valentina Dinica
05	Smelt diet composition across salinity gradients in coastal Rēkohu lakes	Grace Fortune-kelly
06	Avian disperser sensory may drive the convergent evolution of New Zealand's native fruit and truffle-like fungi (TLF)	Gabrielle Johns
07	Nosestradamus- solving a mushroom mystery using sensory traits	Gyoungsu Lee
08	Disentangling the indirect effects of nitrogen enrichment on small scale insect and fungal pathogen damage in grasslands	Tosca Mannall
09	Pest fish control in an urban wetland: Travis Wetland, Christchurch	Helen McCaughan
10	Kaka and bellbird distribution across the Kiwi Coast in summer 2016 and 2021	Dai Morgan
11	Large-scale and long-term restoration in theory and practice: lessons from mid to late successional forest landscapes	Henry Morse
12	Dispersal patterns of a South Island robin/kakarua ( <i>Petroica australis</i> ) population out of a predator-free sanctuary with high habitat fragmentation	Manaia Pearmain-Fenton
13	Environmental effects on root biota of <i>Discaria toumatou</i>	Stacey Pekelaar
14	Realising the Opportunities of Lawns for Urban Environmental Mitigation	Olivia Rooke-Devoy
15	Urban Epiphyte Diversity and Conservation in Auckland	Tamsin Rooke-Devoy
16	Acoustic call monitoring of ruru in the Southern Alps, North Canterbury	Gemma Smith
17	Toitū te Whenua - Working together for the wellbeing of people and the land	Leon Tan
18	Synthesis and critical analysis of rodent eradication operations carried out on the islands of New Caledonia	Wilfried Weiss
19	Testing drones as a tool for surveying lizards	Harriet Wills

## Symposium: Ecosystem impacts of tree pathogens

## POSTER PRESENTATIONS

Poster #	Poster Title	Presenter
20	Investigating myrtle rust in Aotearoa: Pathogen spillover and spatial patterns	Ngaio Balfour
21	Effect of <i>Phytophthora agathidicida</i> infection on kauri leaf nutrient content	Maisie Hamilton Murray
22	Pōhutukawa leaf functions and characteristics following <i>Austropuccinia psidii</i> infection	Hoa Nguyen
23	Assessing the Effect of Phosphite Treatment on Arbuscular Mycorrhizal Fungi in Kauri ( <i>Agathis australis</i> )	Haileigh Patterson

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