

Conference Programme – Day 1

**Invited speaker*

Mon 8th May

8:00–9:00am MORNING TEA/REGISTRATION in Amokura Gallery (4th Floor)

9:00	MIHI – Biological Heritage National Science Challenge Kāhui Māori
9:30	OPENING ADDRESS: James Buwalda Chair of Governance Group of the Biological Heritage National Science Challenge and Andrea Byrom , Director of BHNSC
10:00	PLENARY: Dr Jan Wright* , Parliamentary Commissioner for the Environment Taonga of an island nation: saving New Zealand's native birds
10:45	PLENARY: Kim Tallbear* , Associate Professor, University of Alberta Decolonizing Science & Technology
11:30	PLENARY: Sandy Liebhold* , Research entomologist, USDA Forest Service, West Virginia New approaches to managing insect incursions: An international collaboration.

12:00–1:00pm LUNCH in Amokura Gallery (4th Floor)

CONCURRENT SYMPOSIA

	INDIGENOUS VALUES – BIOCULTURAL HERITAGE	BIOSECURITY 2025
Chair:	Holden Hohaia , GM Māori Development Landcare Research Manaaki Whenua	Jen Scoular , CEO, New Zealand Avocado
Room:	Icon (2nd Floor)	Amokura Gallery (4th Floor)
1:00	Crazy & Ambitious – Enshrining Vision Mātauranga into the Biological Heritage Challenge, the bigger picture. Melanie Mark-Shadbolt, Māori Manager & Amanda Black, Kaihautū of BHNSC	Overview of biosecurity in New Zealand: Opportunities to make a difference. Roger Smith, Chief Operations Officer, Ministry for Primary Industries
1:15	Why should we include Vision Mātauranga and Mātauranga Māori in our research? A non- Māori perspective. Andrea Byrom, Director, BHNSC	Biosecurity – are we really trying to stop the tide? Barry O'Neill, CEO, Kiwifruit Vine Health
1:30	Engaging Tangata Whenua - a model for community engagement. Alby Marsh, Māori Relationship Advisor, Te Raranga Ahumara, Plant & Food Research	End to End: Innovative science across the border biosecurity continuum. Dave Teulon, Director, Better Border Biosecurity, Plant & Food Research
1:45	A Tuawhenua Māori worldview defines relationship between people & biodiversity. Puke Timoti, Tūhoe Tuawhenua Trust & Phil Lyver, Landcare Research Manaaki Whenua	Port of Tauranga Biosecurity Excellence - A key partnership targeting biosecurity challenges of the future. Mark Whitworth, Port of Tauranga
2:00	What's Māori about Māori science? The Pūtaiao paradox. Georgina Stewart, Auckland University of Technology	From pets to pests: threat of invasion from the trade in new alien species. <i>Phillip Cassey*</i> , Associate Professor, University of Adelaide
2:15	Disrupting the Narrative: Māori Student Engagement in Science through Pūhoro. Naomi Manu, Massey University	PANEL DISCUSSION: Biosecurity:2025 and beyond Chair: <i>David Teulon (Plant & Food Research)</i> , Panellists: <i>Bill Dyck (Forest Owners Association)</i> , <i>Chris Morley (DairyNZ)</i> , <i>Richard Bowman (Environment Southland)</i> , <i>Richard Palmer (Horticulture NZ)</i> , <i>Thomas Malcolm (Te Tira Whakamātaki, Māori Biosecurity Network)</i> , <i>Veronica Herrera (MPI)</i> , <i>Alan Ross (DOC)</i>
2:30	Preventing a fatal attraction: disrupting the spread of kauri dieback disease. Monica Gerth, University of Otago	
2:45	Ahi Pepe MothNet. Barbara Anderson, Landcare Research Manaaki Whenua	

3:00–3:30pm AFTERNOON TEA in Amokura Gallery (4th Floor)

Conference Programme — Day 1 continued

CONCURRENT SYMPOSIA		
	INDIGENOUS VALUES – BIOCULTURAL HERITAGE	BIOSECURITY 2025
Chair:	Jamie Ataria Bio-Protection Research Centre, Lincoln University and Thomas (Tame) Malcolm , Kāhui Māori, Biological Heritage NSC & Waikato Regional Council	Sandy Liebhold , Research entomologist, USDA
Room:	Icon (2nd Floor)	Amokura Gallery (4th Floor)
3:30	PANEL DISCUSSION: Who owns biodiversity genetic data?	In search of the Cheshire cat's smile. John Kean, AgResearch
3:45	<i>Panellists: Kim TallBear (Associate Professor, University of Alberta), Aroha Mead (Chair Emeritus IUCN CEESP), Peter Dearden (Professor, University of Otago), Tammy Steeves (Senior Lecturer, University of Canterbury)</i>	Is the supply of invasive species limited? Eckehard Brockerhoff, Scion
4:00		R3- The importance of Relevant Research in managing Biosecurity Risk: What's on our Radar, how do they Rank and what's our Return on investment? Christine Reed, MPI
4:15		Risk-based Approach (R-bA) for regulation of high risk Phytophthora species at the New Zealand border. Anusara Herath, MPI
4:30	Melanie Mark-Shadbolt and Amanda Black, Bio-Protection Research Centre Te Tira Whakamātaki: Māori Biosecurity Network	
4:45	PLENARY: Jacqueline Beggs* , Director of Centre for Biodiversity and Biosecurity, University of Auckland. Balancing biosecurity priorities: are natural ecosystems the poor cousins?	
5:30	Hon Paul Goldsmith, Minister of Science and Innovation	

6:00pm

DAY 1 CONFERENCE END

Conference Programme – Day 2

Tues 9th May

8:30am	PLENARY: Fiona Carswell , Chief Scientist, Landcare Research Manaaki Whenua Growing the pie: How the BioHeritage Challenge is shaping NZ's bioheritage research
9:00	PLENARY: Nigel French , Professor, Massey University How the revolution in pathogen genomics is informing biosecurity, food safety and public health in New Zealand
9:30	PLENARY: Andrew Young , Director of National Research Collections, CSIRO Biological collections: Essential biodiversity research tools for the 21st Century

10:00–10:30pm MORNING TEA in Amokura Gallery (4th Floor)

CONCURRENT SYMPOSIA

	PREDATOR-FREE NZ 2050	GENOMICS AND DISRUPTIVE TECHNOLOGIES
Chair:	Roger Pech , Principal Scientist, Landcare Research Manaaki Whenua	Neil Gemmell , Professor, University of Otago
Room:	Amokura Gallery (4th Floor)	Icon (2nd Floor)
10:30	Science for conservation. <i>Mick Clout*</i> , Emeritus Professor, University of Auckland	(Gene) Driving pests to extinction. <i>Peter Dearden*</i> , Professor, University of Otago
10:45	Cape Sanctuary and its role in the Cape to City widescale predator control project. <i>Andy Lowe*</i> , Managing Director, Lowe Corporation	Ambitious, but not crazy: Identification and recommendation of standardised molecular procedures for the identification of all life from environmental DNA. Gavin Lear, University of Auckland
11:00	Cape to City – challenging the boundaries. <i>Campbell Leckie*</i> , Land Services Manager, Hawke's Bay Regional Council	Caring for environmental DNA data (through sharing). Austen R. D. Ganley, University of Auckland
11:15	The Taranaki Mounga project – landscape scale ecological transformation. <i>Jan Hania*</i> , Environment Director, NEXT Foundation	Drivers of change in microbial diversity and function in New Zealand soils. Steve Wakelin, Scion
11:30	Conservation – sideshow or the main act? <i>Paul Atkins*</i> , CEO, Zealandia	Environmental DNA and wildlife surveillance; From promise to delivery. Dianne Gleeson, University of Canberra
11:45	High tech solutions to invasive mammal pest control. James Russell, University of Auckland	Pathogen genomics and biosecurity. Bevan Weir, Landcare Research
12:00pm	New sensor approaches to sniff out invasive mammal pests. Andrew Kralicek, Plant & Food Research	Compare and contrast: genetic diversity and population structure utilising genotyping-by-sequencing. Shannon Clarke, AgResearch
12:15	The Cacophony Project - using digital technologies to make trapping 80,000 times more efficient. Grant Ryan, The Cacophony Project	Analysis of genetic composition of Argentine stem weevil populations using genotyping-by-sequencing. Jeanne Jacobs, AgResearch

12:30–1:30 LUNCH in Amokura Gallery (4th Floor)

Conference Programme – Day 2 continued

CONCURRENT SYMPOSIA		
Chair:	PREDATOR-FREE NZ 2050 Andrea Byrom, Director, BioHeritage NSC	GENOMICS AND DISRUPTIVE TECHNOLOGIES Peter Dearden, Professor, University of Otago
Room:	Amokura Gallery (4 th Floor)	Icon (2 nd Floor)
1:30	Ambitious proposals have a long history: which ones worked and why? Carolyn King, University of Waikato	Genetic tools for pest eradication and control – not crazy, just ambitious. Neil Gemmill*, Professor, University of Otago
1:45	A blueprint for a data commons. James Mansell, Noos Ltd.	
2:00	A roadmap to Predator-Free New Zealand. Richard Bowman*, Biosecurity Manager, Environment Southland.	Why saving species and resurrecting species are the same, and why it matters. Mike Dickison, Whanganui Regional Museum
2:15	PANEL SESSION: From crazy to collaboration – discussing the merits of Predator-Free 2050.	Modelling the application of new genetic-based tools to pest management. Aidin Jalilzadeh, Landcare Research Manaaki Whenua
2:30	<i>Chair: Andrea Byrom (Director, BHNSC). Panellists: Jamie Steer (University of Auckland), Nicola Toki (DOC), Judy Gilbert (Windy Hill Restoration Trust Great Barrier Island), James Russell (University of Auckland), Devon Mclean (Project Janszoon; PFNZ 2050 Board), Wayne Linklater (Victoria University)</i>	
2:45		Realising the promise of conservation genomics: an accelerated approach. Tammy Steeves, University of Canterbury
		Exploiting the chemical ecology of invasive species for biosecurity. Maxwell Suckling, Plant & Food Research

3:00–3:30pm AFTERNOON TEA in Amokura Gallery (4th Floor)

CONCURRENT SYMPOSIA		
Chair:	PROTECTING NZ'S PRIMARY INDUSTRIES Travis Glare, Director, Bio-Protection Research Centre	SOCIAL LICENCE TO OPERATE Nick Waipara, Kaihautū BHSC & Principal Advisor for Biosecurity, Auckland Council
Room:	Amokura Gallery (4 th Floor)	Icon (2 nd Floor)
3:30	Pastures; are they New Zealand's most neglected ecosystem? Stephen Goldson*, Principal Scientist, AgResearch	The value of trust & social licence in NZ's primary sector. Peter Edwards, Scion
3:45	New Zealand eradication of bovine TB - a bold new target. Stu Hutchings, OSPRI	If we build it, will they use it? Exploring NZers social licence towards novel pest control methodologies. Edy Macdonald, DOC
4:00	How effective have biosecurity measures been in preventing the introduction of plant pathogens to New Zealand? Phil Hulme, Bio-Protection Research Centre	Bringing the 'Trickster Wasp' into the discourse on biotechnological controls of 'pest wasps' Ocean Ripeka Mercier, Victoria University
4:15	Piloting area-wide sterile insect releases of codling moth in New Zealand. James Walker, Plant & Food Research	Is nature a luxury? Danielle Shanahan, Zealandia
4:30	Enhancing surveillance capabilities - building a partnership. Steve Pawson, Scion	Whakarongo ki te hapori - Listen to the community first - talk second. Jo Ritchie
4:45		Speakers and delegates to move upstairs to the Amokura Gallery for the plenary address.
4:50	PLENARY: Kevin Prime* , Environment Commissioner, Farmer, Forester, Beekeeper, Conservationist. What is Kaitiakitanga?	
5:30	POSTER SESSION/RECEPTION Enter Landcare Research's #BlitzMe competition and win a backyard BioBlitz for the not-for-profit of your choice.	

7:00pm

DAY 2 CONFERENCE END

Conference Programme – Day 3

Wed 10th May

8:30am	PLENARY: <i>Joshua Viers*</i> , Associate Professor, University of California. Black Swan-Brown River: How a free-flowing river transformed California's approach to river management
9:00	Karakia and mihi whakatau, Joe Harawira, DOC
9:10	Lou Sanson , Director General, Department of Conservation
9:15	Hon Maggie Barry , Minister of Conservation
9:30	Predator Free 2050 – advancing the programme. Predator Free 2050 Ltd Board – Arihia Bennett and Mervyn English

10:00–10:15pm MORNING TEA in Amokura Gallery (4th Floor)

CONCURRENT SYMPOSIA

	ECOSYSTEM RESTORATION	THREATENED SPECIES SUMMIT SESSION 1: Uniting against Invaders
Chair: Room:	Bruce Clarkson Icon (2 nd Floor)	Lou Sanson Amokura Gallery (4 th Floor)
10:15	Freshwater restoration: Challenges and opportunities. <i>John Quinn*</i> , Chief Scientist- Freshwater and Estuaries, NIWA	The value of threatened species to NZ Incorporated. Sir Rob Fenwick, Chairman, Predator Free NZ trust
10:30	Our lakes' health: past, present, future. Susie Wood, Cawthron Institute	Our nature in our place - how DOC is working with others to ensure threatened species success. Lou Sanson. Director General, Department of Conservation
10:45	Havelock North: The role of genomic technologies in investigating the world's largest waterborne campylobacteriosis outbreak. <i>Brent Gilpin*</i> , Science Leader, ESR	Kākāpō genomics: sequencing the genomes of an entire species. Andrew Digby, DOC
11:00	Groundwater biodiversity: a curiosity or major ecosystem service provider? Graham Fenwick, NIWA	Using an acute toxin for eradication: are you crazy?! Phil Bell, Zero Invasive Predators
11:15	Managing and predicting tipping points in New Zealand. Johanna Yletyinen, Canterbury University	What recovery of NI kokako requires. John Innes, Landcare Research
11:30	Reversing ecosystem tipping points on the Hikurangi floodplain. Bev Clarkson, Landcare Research Manaaki Whenua	Winning against wildings. Keith Briden, DOC
11:45	The use of a traditional Māori harvesting method, the tau kōura, for monitoring kōura (freshwater crayfish) populations. Brendan Hicks, University of Waikato.	Panel: The future of pest control tools in the quest for a Predator-Free 2050. <i>Chair: Nicola Toki (DOC). Panellists: Robbie van Dam (Goodnature); Graeme Elliott (DOC); Phil Bell (ZIP), Kelvin Hastie (Crofton Downs Predator Free).</i>
12:00pm	Restoring resilience in the Waiapu catchment freshwater socio-ecological system. Peter Edwards, Scion	

12:15–1:00 LUNCH in Amokura Gallery (4th Floor)

Conference Programme – Day 3 continued

CONCURRENT SYMPOSIA			
	ECOSYSTEM RESTORATION		THREATENED SPECIES SUMMIT SESSION 1 Uniting against Invaders
Chair: Room:	Duane Peltzer Icon (2nd Floor)		Lou Sanson Amokura Gallery (4th Floor)
1:00	PLENARY: Richard Duncan* , Professor, University of Canberra. New Zealand in context: why we have so many threatened species	1:00	The DOC Threatened Species Strategy, what it means and what we're going to do. Nicola Toki*, DOC Threatened Species Ambassador
		1:20	Australian perspectives on saving threatened plants and animals and Australia's Threatened Species Strategy in practice. Gregory Andrews Australian Threatened Species Commissioner
1:30	PLENARY: Bruce Clarkson* , Professor, Challenge Ambassador, University of Waikato. Urban ecological restoration: the new frontier?	1:35	The conversation about feral cats in NZ. Helen Beattie, Cat Management Strategy Group
2:00	Restoring Taranaki - creating a new normal. Leigh Honnor, Wild for Taranaki	1:55	Biocontrol as a key weapon for the war on weeds. Lynley Hayes, Landcare Research
2:15	Climate change impacts on biodiversity of Aotearoa. Are we leaving our frogs to boil? Cate Macinnis-ng, University of Auckland	2:10	Core collection development for efficient and targeted operation of seedbanks. Kioumars Ghamkhar, Margot Forde Forage Germplasm Centre
2:30	Beyond riparian fencing: Partnering ecosystem scaling, services and society to achieve stream restoration. Katie Collins, University of Canterbury	2:30	The role of botanic gardens in threatened plant conservation. Jack Hobbs, Auckland Botanic Gardens and Jeremy Rolfe, DOC
2:45	The environmental legacy of modern tropical deforestation. Rob Ewers*, Imperial College, London	2:45	Session 1 Summary: The challenging issues of threatened species protection and recovery. Nicola Toki (DOC) and Gregory Andrews (ATSC)

3:00–3:30pm AFTERNOON TEA in Amokura Gallery (4th Floor)

Conference Programme – Day 3 continued

CONCURRENT SYMPOSIA			
	PARTNERING WITH COMMUNITIES	THREATENED SPECIES SUMMIT SESSION 2: CONSERVATION WITHOUT BORDERS (beyond Public Conservation land)	
Chair: Room:	Bev Clarkson Icon (2 nd Floor)	Lou Sanson Amokura Gallery (4 th Floor)	
3:30	Citizen science for conservation: how can we do better here? <i>Monica Peters*</i> , people+science	3:30	Perspectives on threatened species conservation. Te Rūnanga o Ngāi Tahu
4:00	Biodiverse cities and a kiwi in every garden. Claire Freeman, University of Otago	3:50	The future of threatened species in captivity and the role of zoos in conservation Karen Fifield, Chief Executive Wellington Zoo
4:15	Citizen science for refinement of kauri dieback control tools. Ian Horner, Plant & Food Research	4:05	Why business should invest in threatened species Neal Barclay, GM Meridian Energy
4:30	Ships in the night – the vexed interface of environmental policy and ecological limits in New Zealand. <i>Marie Brown*</i>	4:25	Why protecting nature on private land is pivotal to agriculture's future success. Nuffield Scholar – Dan Steele, Blue Duck Lodge
4:45	Landscape scale biodiversity restoration - an iwi and community driven process. Peter Handford, Groundtruth	4:40	Panel: Opportunities and challenges of recovery of threatened plants and animals on private and farming land. <i>Panel chair: Scott Simpson, MP.</i> <i>Panellists: William Rolleston (President, Federated Farmers); Mike Jebson (Chief Executive of QEII Trust, Ngāire Tyson (Landcare Trust).</i>
5:00 -	Non-traditional partnerships are fundamental to the management of domestic cats. Myfanwy Emeny, Wellington City Council		
5:15	What does the public know about our native birds? <i>Sophie Fern*</i> , Biologist and story-teller Speakers and delegates to move upstairs to the Amokura Gallery for the closing address.	5:10	Closing Address: Director-General of Conservation: Lou Sanson; Threatened Species Ambassador Nicola Toki and Biological Heritage Director Andrea Byrom.
		5:25	Karakia, Joe Harawira, DOC
5:30	CONFERENCE CLOSE: Andrea Byrom, Challenge Director		

5:45pm

DAY 3 CONFERENCE END