

ANET 2023

RESILIENCE, RECOVERY AND RESTORATION: TRANSPORT ECOLOGY IN A CHANGING WORLD

INTERNATIONAL CONFERENCE OF THE AUSTRALASIAN NETWORK
FOR ECOLOGY AND TRANSPORTATION (ANET)

27 - 29 NOVEMBER 2023 | TE PAE, CHRISTCHURCH, NZ



WELCOME FUNCTION | Sunday 26 November 2023

5:30pm - 7:30pm **THE CRAFT EMBASSY** | Level One, The Terrace, 126 Oxford Tce, Christchurch

DAY ONE | Monday 27 November 2023

8:30am - 9:00am **WELCOME | INTRODUCTION AND TRADITIONAL WELCOME**

9:00am - 10:00am **Keynote Speaker | Professor Theresa Jones, University of Melbourne** | Exploring the impacts of ecological light pollution to more effectively avoid, minimise and mitigate the impacts of transport infrastructure.

10:00am - 10:30am **Morning Tea**

10:30am - 11:00am **Vanessa Browne | New Zealand Transport Agency** | The challenges and opportunities to enhance ecosystem resilience on New Zealand's transport network

11:00am - 11:30am **Plenary Speaker | Professor Sharyn Rundle-Thiele, Griffith University** | If we don't act now, we are toast!

11:30am - 12:00pm **Plenary Speaker | Robyn Simcock, Landcare Research** | How can the existing and future transport infrastructure support and enhance ecosystem health and biodiversity conservation?

12:00pm - 1:00pm **Lunch**

CONCURRENT SESSIONS

1:00pm - 2:30pm	Room 1 Wildlife and wildlife impacts Cathryn Dexter Saving an Icon: How local government can be the difference in threatened species conservation Jon Sullivan A simple method for monitoring roadkill that's been applied around Ōtautahi-Christchurch, New Zealand, over the past 20 years Rieke Behrens Lessons learnt from salvaging threatened lizards on the O Mahurangi – Penlink highway project in North Auckland. Vanessa Gorecki Culverts and a trawling bat: Opportunities for nature-based solutions on transport infrastructure networks David Pickett A innovative approach to 'At-Risk' species management for Te Ahu a Turanga – Manawatū Tararua Highway Alasdair Hall Post-earthquake highway reconstruction: impacts and mitigation opportunities for a New Zealand pinniped population	Room 2 Guidelines, best practice and knowledge base Kelly Dalton Practicality of survey guidelines for the Vulnerable Striped Legless Lizard on linear infrastructure projects Carol Bannock Driving towards more balanced biodiversity outcomes: introducing the new Waka Kotahi Ecological Impact Assessment Guidelines Nic McCaffrey Atlas of wildlife crossings and mitigation structures across Victoria – a new platform for discovering fauna sensitive infrastructure design Duncan Law Integrating ecological design in infrastructure for positive biodiversity co-benefits: Te Ahu a Turanga - Manawatū Tararua Highway Elvira Lanham Hiding in plain sight: Serpentine flora of the Marlborough area of central QLD David Francis Dealing with the fiddle bits - The City of Moreton Bay's Green Infrastructure Guidelines
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2:30pm - 3:00pm **Afternoon Tea**

WORKSHOP SESSIONS

3:00pm - 4:10pm	Room 1 Workshop Rodney van der Ree Communicating your transport ecology story to the community, engineers and your mum	Room 2 Workshop Elvira Lanham Finding out the hard way: What are the consequences of unexpected ecological and cultural finds on biodiversity, science, projects and communities?
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4:15pm - 6:00pm **POSTER PRESENTATIONS WITH DRINKS AND NIBBLES**

7:00pm - 10:30pm **COCKTAIL FUNCTION** | Mr Brightside Cocktail Bar, 152 Oxford Terrace, Christchurch Central City, Christchurch

DAY TWO | Tuesday 28 November 2023

8:20am - 8:30am **WELCOME TO DAY TWO AND RECAP OF DAY ONE**

8:30am - 9:30am **Keynote Speaker | Colleen Cassdy St Clair, Professor Biological Sciences, University of Alberta** | Animal learning contributes to both problems and solutions for wildlife–train collisions

WORKSHOP SESSIONS

9:30am - 10:30am	Room 1 Workshop Vanessa Gorecki The sustainability agenda and opportunities for improved ecological outcomes on infrastructure projects	Room 2 Workshop Lorenzo Franzori and Carla Bates Railways and ecosystem services: challenges for infrastructure development
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10:30am - 11:00am **Morning Tea**

CONCURRENT SESSIONS

11:00am - 12:15pm	Room 1 Wildlife and wildlife impacts Michelle Greenwood Understanding the impact of LED streetlight conversions on flying freshwater insects Michiel Jonker Assessing the impact of artificial light at night on bat activity to better manage potential effects on bat populations Douglas Kerlin AI powered observation networks pose new questions for koala-friendly fauna infrastructure Steven Ward Road monitoring provides insights into three species Rodney van der Ree Improving best-practice mitigation on transport projects while meeting conditions of approval – a scientifically robust experiment to test the effectiveness of hollow-replacement strategies	Room 2 Community engagement Elke Hahn The infrastructure ecology network Europe (IENE) - A European initiative for harmonising transportation and nature. The link to her abstract is below Kevin Roberts How do we ensure there are advocates for ecologically sensitive infrastructure who are not ecologists? Caitlin Lavery Kaitiakitanga on Te Ahu a Turanga Highway project – True partnership and embracing indigenous knowledge
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12:15pm - 1:15pm **Lunch**

1:15pm - 2:45pm	Room 1 Guidelines, best practice and knowledge base Cathy Bebelman Biodiversity in the Road Corridor Benjamin Allen Top-shelf evidence of environmental impacts and benefits of transport corridors is seldom obtained, but is possible: examples from road and rail construction in southeast Queensland Josie Stokes The History of Restoring Wildlife Habitat Connectivity on linear networks in NSW Australia Cassie Thompson What do we know from 25 years of installing wildlife crossings? Dan Lim The road less traveled: An international perspective on how linear infrastructure can benefit nature and community, lessons from the UK for Au and NZ	Room 2 Integrated landscapes and landscape management Nick Goldwater Creating an enduring ecological legacy: the Otaki to north of Levin Highway Project Neil Dufty The role of linear reserves in NSW biodiversity conservation Parampara Koirala Moncks Bay: Nurturing Ecosystems via Coastal Pathway Connectivity Lisa Rimmer RiverLink-project ecosystems needed to support indigenous bioengineering, habitat, and biodiversity outcomes Mark Hansen Reducing risk to future infrastructure and transport projects while protecting and enhancing biodiversity through engagement and design
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2:45pm - 3:15pm **Afternoon Tea**

CONCURRENT SESSIONS

3:15pm - 4:45pm	Room 1 Recovery and restoration Fiona Davies How Large-Scale Infrastructure Projects Can Further Enhance Biodiversity Knowledge: Insights from the Te Tūpu Ngātahi Supporting Growth Alliance Josh Markham An alternative to the standard NZ Highways topsoil approach using a nature-based solution with positive biodiversity co-benefits. Gareth Taylor Earthquake ecosystem (and infrastructure) recovery: Protecting ecosystems whilst restoring connections. Duncan Law Offsetting for the loss of stream values and extent, Te Ahu a Turanga – Manawatū Tararua Highway approach Briony Mitchell Rope-ladder canopy bridges restore connectivity for the critically endangered Leadbeater's Possum in the Central Highlands of Victoria, Australia Chris Fern Re-establishing ecological connection between Aputerewa Creek and Mangonui Estuary by upgrading the Tokatoka Culvert on State Highway 10, Northland	Room 2 Railways and powerlines Pinar Yilmazer Global Strategies for Railways' habitat management Sarah McLean Boosting biodiversity through electricity transmission infrastructure projects Daya Thomson Biodiversity and KiwiRail: the journey, the challenges, the opportunities Ben Roberts Restoring and protecting nationally threatened biodiversity values within an urban rail environment: an operators perspective Georgia O'Connor Critical review of current practice in Wayside Vegetation Management: strategies to realise the potential of under-appreciated transport corridors Casey Visintin and Rodney van der Ree Quantifying wildlife–train collisions and assessing the relative effectiveness of different mitigation strategies
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4:45pm - 5:15pm **FIELD TRIP INFORMATION, SAFETY OVERVIEW AND CONFERENCE CLOSE**

DAY THREE | Wednesday 29 November 2023

7:30am - 5:00pm **KAIKOURA FIELD TRIP**

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