

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

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

2:30pm - 3:00pm **Afternoon Tea**

WORKSHOP SESSIONS

Room 1 | Workshop

Rodney van der Ree | Communicating your transport ecology story to the community, engineers and your mum

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

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

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

Room 1 | Workshop

Vanessa Gorecki | The sustainability agenda and opportunities for improved ecological outcomes on infrastructure projects

10:30am - 11:00am **Morning Tea**

CONCURRENT SESSIONS

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

12:15pm - 1:15pm **Lunch**

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

2:45pm - 3:15pm **Afternoon Tea**

CONCURRENT SESSIONS

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

4:45pm - 5:15pm **FIELD TRIP INFORMATION, SAFETY OVERVIEW AND CONFERENCE CLOSE**

Room 2 | Workshop

Lorenzo Franzori and Carla Bates | Railways and ecosystem services: challenges for infrastructure development

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

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

DAY THREE | Wednesday 29 November 2023

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

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