



Environment Institute
of Australia and
New Zealand Inc.

Biodiversity

NZ Biodiversity Symposium

Thursday 1 September 2022 - Dunedin, New Zealand

70 St David Street - St David Complex Seminar Room B G.02A

8:30 am	Registration Opens
9:00 am	Welcome
9:25 am	<u>Towards a Predator Free Dunedin</u> Predator Free Dunedin is a conservation collective of more than 20 organisations working collaboratively to protect nature and strengthen communities. By building on existing projects and linking the areas between, they aim to get rid of possums, rats and stoats from Dunedin's urban and rural landscapes by 2050. Kimberley Collins will present an update on the project and share their strategy and success as a community-based landscape-scale predator free project.
9:55 am	<u>Department of Botany</u> Fungal and bacterial diversity, their importance to larger flora and fauna and their impact on attempts at restoration.
10:25 am	<u>Ecological Impact Assessment Guidelines: what is working well and what can be improved</u> The EIANZ Ecological Impact Assessment Guidelines have been in place for some 7 years, and we are aware of some matters that will benefit from an update and clarification. In addition we are now facing a changing legal and practice environment. We plan to update the guidelines in a series of 'modules' rather than prepare a single new document. A discussion on your thoughts on what needs or can be improved upon in the guidelines is the purpose of this session.
10:45 am	Coffee Break
11:15 am	<u>Reviving native ecosystems</u> Habitat Restorations Aotearoa (HRA) is a small company doing big things - reviving biodiversity, improving water quality, restoring ecological function and healthy habitats. HRA is Otago-based, has a passion for native ecosystems and is involved in a number of high profile biodiversity projects, such as Te Nohoaka o Tukiauau and the Pomahaka Corridor Planting Project. In 2021 our team implemented the planting and follow up maintenance of over 100,000 native sedges, shrubs and trees. We're well on the way to replicating this feat again this year.
11:45 am	KEYNOTE: <u>Case studies of biodiversity restoration from a mana whenua perspective</u> Jobs for nature projects being led by mana whenua ki Otago.
12:45 pm	Lunch Break
1:45 pm	<u>Kelp forests of southern Aotearoa: function, loss, and the need for restoration</u> Kelp forests, particularly those dominated by the giant kelp <i>Macrocystis pyrifera</i> form the backbone of many of southern Aotearoa New Zealand's most productive and valuable coastal marine areas. Kelp forests however are increasingly under threat from a variety of anthropogenic sources and a multi-faceted management approach is essential to restoring and maintaining the productivity and resilience of these important ecosystems.
2:15 pm	<u>The complex challenges of hoiho / yellow-eyed penguin conservation</u> The Yellow-eyed Penguin Trust is a New Zealand authority on hoiho / yellow-eyed penguins and their conservation. The principal focus is to attend to the biological needs of hoiho by nurturing the natural systems which sustain the birds ashore and at sea.
2:45 pm	KEYNOTE: <u>Ministry for the Environment</u> National Policy Statement for Indigenous Biodiversity
3:30 pm	Coffee Break
4:00 pm	<u>Dunedin City Council Biodiversity Policy</u>
4:30 pm	KEYNOTE: <u>Department of Conservation</u> Te Mana o Te Taio – the Aotearoa Biodiversity Strategy
5:30 pm	Closing
7:00 pm	Symposium Dinner at tītī 24 The Esplanade, St Clair

Hosted by:



**Department of
Botany**
Te Tari Huata



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NZ Biodiversity Symposium Field Trip

Friday 2 September 2022 - Dunedin, New Zealand

20 Fryatt Street

12:45 pm Sign in

1:00 pm Tour Departs

Journey across the Otago Peninsula over the high road with postcard views of the harbour and coast. You'll see many different wading birds and shore birds as your mini-bus explores around the inlets and the wetland eco-systems.

The trip continues to Wellers Rock Wharf, for a Monarch Wildlife Cruise. You'll travel out of the harbour, around Taiaroa Head, and out to sea. Watch as a majestic royal albatross glides across the water and returns to its breeding colony. Beneath a historic lighthouse is a colony of playful furseals, the skipper will get you nice and close for photos. A short way out to sea and you'll spot other rare seabirds and maybe a blue penguin or dolphins.

The final stop is at a Yellow-eyed Penguin conservation reserve. Visit the on-site rehab centre before a tour of the reserve. Your guide will take you on trails through native bushland, walking through tunnels and trenches to different viewing hides scattered around the reserve. Watch as the world's rarest penguin returns ashore and interacts around their nesting sites.

The tour ends with a relaxed drive, following the harbour, back to Dunedin.

6:00 pm Tour finishes

Child Policy

As this tour duration is approximately 5 hours, the tour does not suit all children. We recommend the use of carry pack for walks (tour not suitable for pushchairs/strollers etc).

Food & Drink

A light pre-packed meal and drink bottle will be supplied. We recommend a good sized lunch before departing.

Fitness

Some walking is required to access the yellow-eyed penguin private conservation area. The walk requires a medium level of fitness as the terrain you may encounter includes hilly farm land, sandy beaches, bush tracks and stairways that provide access to viewing hides.

Clothing & Footwear

All tour options are based outdoors in a land where maritime weather prevails, the weather can change very quickly on the Southern coast at any time of the year. Always wear a few warm layers and a waterproof jacket is a good idea. Your footwear will ideally be designed for walking and should be sturdy, comfortable and enclosed.

Medicines & Health Conditions

Personal medicines should be carried on all tours. Any health condition which could potentially be a problem should be disclosed before the commencement of a tour. The terrain visited is not suitable for persons with walking disabilities and wheelchairs.

Photography

Flash photography of any animals is not permitted.

Cancellation Policy

If the tour is cancelled for any reason, such as inclement weather, we will provide a full refund. We reserve the right to cancel if a minimum number of participants is not achieved, and to alter the service.

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Kimberley Collins

- ◆ Towards a Predator Free Dunedin

Communications & Engagement Lead, Predator Free Dunedin

David Orlovich, Matt Larcombe, and Tina Summerfield

- ◆ Fungal and bacterial diversity, their importance to larger flora and fauna and their impact on attempts at restoration

The Department of Botany at Otago is the only university department in New Zealand specialising in the science of plants, and one of only a few in Australasia. Modern Botany includes research into the biochemistry, ecology, genetics and physiology of plants, plant evolution, the role plants play in ecosystems and plant biotechnology.

Ian Boothroyd DPhil, MBA, FEIANZ, FRSB

- ◆ Ecological Impact Assessment Guidelines: what is working well and what can be improved

Ian is a consultant ecologist with extensive experience in undertaking ecological assessments for a wide range of government, industry and community sectors. Ian is co-author of several national standards for freshwater and biodiversity management and monitoring in New Zealand including the award-winning Ecological Impact Assessment guidelines. Ian is regularly called upon to provide independent expert testimony, and is an accredited and experienced independent environmental commissioner.

Glen Riley

- ◆ Reviving native ecosystems

Glen is a practically minded, solutions focussed conservationist with extensive restoration experience. Being brought up alongside the Kakanui River and Pacific Ocean in North Otago in an organic horticulture environment, Glen has long standing connections with the land, wildlife and the rural sector. Glen understands the delicate relationships between people, the economy and the environment and has been instrumental in creating and delivering restoration programmes and outcomes to high profile Otago reserves 'Penguin Place' and 'Te Nohoaka o Tukiauau Sinclair Wetlands' as well as playing roles in other conservation sites around Aotearoa.

KEYNOTE: Aukaha and mana whenua representatives

- ◆ Case studies of biodiversity restoration from a mana whenua perspective

Aukaha and mana whenua representatives will deliver a presentation on a range of restoration projects underway through-out the Kāi Tahu ki Otago takiwā (tribal territory). Presenters will describe the aspirations of each project and what work has been undertaken so far.

Aukaha are a consultancy who are owned by, and mandated to act on behalf of, the 5 Otago based rūnaka:

- Te Rūnanga o Waihao
- Te Rūnanga o Moeraki
- Kāti Huirapa Rūnaka ki Puketeraki
- Te Rūnanga o Ōtākou
- Hokonui Rūnanga

Gaya Gnanalingam

- ◆ Kelp forests of southern Aotearoa: function, loss, and the need for restoration

Gaya is a marine ecologist based at the Department of Marine Science and the Centre of Research Excellence Coastal People Southern Skies. She works primarily in southern New Zealand on species restoration and management for long term sustainability. Her work integrates a number of research areas including stock enhancement, marine ecology, policy and regulation.

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Trudi Webster

- ◆ The complex challenges of hoiho / yellow-eyed penguin conservation

Trudi is a marine scientist focused on the conservation and ecology of marine vertebrates. She is currently the science advisor for the Yellow-eyed Penguin Trust and works with a wide range of stakeholders to provide optimal species management, research advice, and policy guidance for the protection of hoiho, their habitat and the wider environment.

KEYNOTE: Hayden Johnston

- ◆ National Policy Statement for Indigenous Biodiversity

The Ministry for the Environment is the Government's primary adviser on environmental matters. It provides policy advice to enable the Government's legislative and regulatory agenda and has a stewardship role for the environmental system. Hayden is Director, Water and Land Use Policy. The Water and Land Use Policy Directorate has a core role providing advice on several areas of national direction including: biodiversity, freshwater, plantation forestry and highly productive land.

Zoe Lunniss

- ◆ Dunedin City Council Biodiversity Fund

Zoe Lunniss is a practicing conservationist with a passion for plants. She has recently begun a role as Biodiversity Advisor at the Dunedin City Council working with a range of stakeholders to provide advice and support on biodiversity objectives, policies and rules. Prior to this, Zoe has been working with DOC to protect Waikato's Whangamarino Wetland from the invasion of an unwanted organism, *Cuscuta campestris*.

KEYNOTE: Mark Fitzpatrick

- ◆ Te Mana o Te Taio – the Aotearoa Biodiversity Strategy

Mark is passionate about nature and the environment, with a 'why' of "bringing people and organisations together for better environmental outcomes". Mark's career began in business before entering the sciences. While working for NIWA, Mark completed his Masters of Marine Science at Leigh in the field of larval connectivity. Working as a consultant in New Zealand and Australia, Mark has led Impact Assessment related projects across multiple sectors including Terrestrial and Seabed Mining, Unconventional Oil and Gas and Offshore Oil and Gas. In response to NPS-FM, Mark then established and led a national team of consultants who specialised in assessing and minimising nutrient loss to water, from farms. Since joining DOC in 2019, Mark's work has remained varied with multiple leadership roles generally related to threatened species and ecosystem management. In February 2022, Mark took on the leadership for implementing Te Mana o Te Taiao – Aotearoa New Zealand Biodiversity Strategy. Originally from Tamaki Makaurau - Auckland, Mark now lives in Otautahi - Christchurch, with his partner Alicia and their 3 children Reef, Finn and Taj.

Tahu Mackenzie

- ◆ Symposium Dinner Guest Speaker

New Zealander of the Year Kiwibank Local Hero 2019

Otago Educator of the Year 2020

Otago Person of the Year 2020

Tahu is the educator at Dunedin's Orokonui Ecosanctuary

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