Looking at the wood, seeing the trees and more

Australia-New Zealand Tree Ring Science Conference 21-23 January 2025

Waipapa Taumata Rau University of Auckland,
Tamaki Makaurau Auckland,
Aotearoa New Zealand







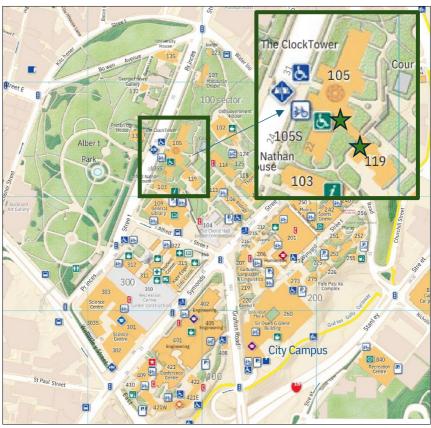




Conference venue and map

The conference will be held in the **University Clock Tower** (Building 105) and **Clock Tower East Wing** (Building 119), Princes Street, Auckland CBD.

- Registration, posters, and refreshments will be in the East Wing Foyer 119-120
- The oral presentations will be in lecture theatre **105-029**.



Waipapa Taumata Rau University of Auckland City Campus.

Presentation schedule

Wednesday 22 January 2025

Time 9:00	Presenter Committee	Session and Title Welcome	
Session 1: Climate reconstruction Chair: Kathryn Allen			
9:15	Jonathan Palmer (Keynote)	Reconstruction of the Indian Ocean Dipole (IOD) back to 800 CE from tree rings.	
9:45	Jimmy Cordwell	Unpacking dendrochronological research in the Southern Hemisphere: opportunities for future research	
10:00	Kathryn Allen	Seasonal common era temperature reconstructions for southeastern Australia	
10:15- 11:00 Morning tea			
11:00	Danielle Vernon-Kidd	Leveraging dendroclimatology for hydroclimate risk assessment: A Case Study from Tasmania, Australia	
11:15	Casey Ryan	Reconstruction of fire histories of the Capes region of southwest Australia from speleothems and tree ring records	
11:30	Tim Wardlaw (presented by Kathryn Allen)	Can dendrometry provide temperature response curves needed to inform adaptation responses to climate change in Tasmania's high productivity eucalypt forests?	

12:00- 13:30 Lunch

11:45 Kathryn Allen World Dendro 2025, Zambia

Session 2: Ecology and event reconstruction Chair: Pauline Grierson

13:30	Sabine Kasel (Keynote)	Population dynamics of <i>Persoonia arborea</i> (Tree Geebung) in response to disturbance: implications for its conservation and	
14:00	Alessia Bono	management. Rethinking potential carbon storage in New Zealand conifers by studying wood density in relation to global warming and tree age	
14:15	Luitgard Schwendenmann	Diagnosing forest health: kauri dieback and dendrochronology	
14:30- 15:00 Afternoon tea			
15:00	Chris Lusk	Dynamics of southern beech (<i>Nothofagus</i>) stands in the lowland North Island of New Zealand	
15:15	Sophie Newsham	Using tree-ring growth anomalies and cohort establishment to date great earthquakes on the Alpine Fault	
15:30	Luitgard Schwendenmann	Wrap up of the day	
	16:00-18:00 Poster s	ession with drinks and food	
Poster	Kathryn Allen	How old is that macadamia tree?	
Poster	Kathryn Allen	Could Australian <i>Adansonia gregorii</i> (Boab) provide multi-centennial climate records for Australia's northwest?	
Poster	Melanesia Boseren, Luitgard Schwendenmann, Gretel Boswijk	Seasonal water uptake patterns in kauri trees (Agathis australis) using stable isotopes	
Poster	Gretel Boswijk	Loaded up and sailed away: where did the kauri go?	
Poster	Martina Ayelén	Can trees in a semi-arid region shrink and	

grow at the same time?

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Poster	Alexandra McKenzie	The dendroecological potential of cool
		temperate rainforest in northern New
		South Wales

Thursday 23 January 2025

Session 3: Challenging trees Chair: Luitgard Schwendenmann

Time	Presenter	Session and Title
9:00	Nathan Brooks-	Determining the age and growth rate
	English	of <i>Acacia harpophylla</i> in central Queensland, Australia, using radiocarbon
		in trees lacking annual rings.
9:15	Ashleigh Ford	What is a ring? Characterising ring
		structures in Acacia aneura for
		dendroecological analysis
9:45	Oscar Clendon	Learnings from the first attempt in creating
		a dated chronology for the widespread
		New Zealand forest tree, Beilschmiedia
		tawa.
10:00	Heather Haines	The application of tropical Australian
		conifer species for dendrochronological
		research: A review of existing work and
		roadmap for future priorities

10:15-11:00 Morning tea

Session 4: Stable isotopes and radiocarbon Chair: Gretel Boswijk

11:00	Neil Loader	Exploring the potential of stable isotope
	(Keynote)	dendrochronology in Aotearoa New
		Zealand
11:30	Oliver Medd	A new LA-IRMS for stable isotope
		dendrochronology in Australia

11:45	Matthew Goodwin	A novel grey mangrove oxygen isotope record from the Hunter Wetlands National Park, Newcastle, New South Wales
12:00	Alan Hogg	The role of dendrochronology in Southern Hemisphere radiocarbon calibration
12:15	Rowan McBride	AMS wiggle-match dating in New Zealand archaeological contexts: Constraints, limitations and potential of the technique.

12:30 – 14:00 *Lunch*

Session 5: Dendroarchaeology Chair: Gretel Boswijk

14:00 14:15	Dilys Johns, Malcolm Patterson Em Sharp	Nui ake i te tūnga i te wā- more than a placement in time: calendar dates and a Māori experience with taonga appraisal Reassessing the potential of <i>Podocarpus totara</i> (totara) for dendrochronology
14:30	Danielle Verdon-Kidd	Dendrochronological analysis of historic turpentine timber from Catherine Hill Bay, New South Wales, Australia
14:45	Gretel Boswijk (Keynote)	Reflections on dendroarchaeology in New Zealand
15:15	Committee	Closing address

15:30 – Farewells

Haere Ra!

Thank you for attending our conference