





CONFERENCE VENUE: TE PAE CHRISTCHURCH CONVENTION CENTRE

(* = Student Presentation)

	SUNDAY 30 NOV 2025					
4:30pm	Registration desk open					
6:30-8:30pm	NZFSS/AFSS 2025 Welcome Function Te Pae, Exhibition Area					

	MONDAY 01 DEC 2025
7:30-8:30am	Early Careers Breakfast (ticketed event)
	Te Pae, Dobson Foyer
8:30-8:40am	Mihi Whakatū - Te Taumata o Ngāi Tūāhuriri
	Room: Rakaia
8:40-9:00am	Conference opening
	Room: Rakaia
9:00-9:40am	Keynote 1 - David Hamilton, Griffith University
	The need for south-to-south collaborations in global assessments of inland waters
	Room: Rakaia
9:40-10:20am	Keynote 2 - Jane Kitson, Tohu Environmental
	Whakapapa, Whanaungatanga and Wānanga in Research and Restoration
	Room: Rakaia
10:30-11:00am	Morning Tea

			MONDAY 01 DEC 202	25		
Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
Theme	Long term and large- scale data management	Trans-Tasman innovations in fish passage & screening: advancing connectivity and conservation 1	Reimagining freshwater monitoring and indicators 1	Catchment management for better water quality	Monitoring the health of freshwater 1	Algae and harmful blooms
Session Chair	Nicolas Ling	Paul Franklin	Rick Stoffels	Brandon Goeller	Kathryn Korbel	Anne Colville
11:00-11:15am	A window to the past: Macroinvertebrate community changes in response to riparian revegetation works and land cover using historical datasets Mariah Sampson	Effectiveness of a lateral ridge rock ramp fishway for restoring fish passage at a gauging weir in Northland Paul Franklin	What might a 'reimagined monitoring programme' look like in the real word? Meeting the information requirements of Whaitua Implementation Plan Rick Stoffels	How should we interpret contaminant runoff concentrations from land-use compared to water quality guidelines? Richard Muirhead	Assessing the Health of Groundwater in New Zealand through Bacterial and Archaeal Biodiversity Judith Webber	High Water Temperatures, Algal Blooms, and Low Oxygen: Understanding the Risk to Juvenile Fish Joel Egan*
11:15-11:30am	The problem with databases: in the age of Big Data are we generating Big Errors? Nicholas Ling	Innovations in Tidal Fishway Design: Advancing Juvenile Diadromous Fish Passage at Coastal Barriers in Australia Tim Marsden	Identifying areas favourable for species of interest using environmental proxies compared to modelling processes Rebecca Lester	Mud, bugs, and Mosquitofish: Testing BMPs in Lowland Dairy Drains Alastair Suren	Assessing the Health of Groundwater in New Zealand Through Biodiversity Panan Sitthirit	Predicting phytoplankton community response to environmental change in a shallow coastal lagoon Daniel Chilton
11:30-11:45am	Using GIS automation to process, summarise and interpret high volumes of complex environmental data Chris Wilson	Baffling solutions: effectiveness of baffles and floating fish ramps at facilitating fish passage through culvert barriers on the West Coast Nixie Boddy	A framework for assessing recovery constraints in restoration: freshwater macroinvertebrates as an illustrative example Belinda Margetts	Nature's Palette: Discovering the Water Colour Dynamics in Temperate Forested Catchments in South- eastern Australia Charuni Jayasekara	From Catch to Concern: The Presence of PFAS (Per and Polyfluoroalkyl Substances) in Aotearoa's Freshwater Fish Carys Marulli de Barletta*	Revisions to the recreational cyanobacteria guidelines for Aotearoa New Zealand Jonathan Puddick

Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
11:45-12:00pm	Working better together	Key learnings from	Freshwater Policy	Performance of	Collaborative	The growth effects of
	with eDNA	attempted remediation of	Effectiveness	constructed wetlands to	Monitoring for	saxitoxin- and non-
	Carolyn Mander	fish passage barriers on	Monitoring: How do we	reduce diffuse pollution	Freshwater	saxitoxin-producing
		the West Coast	measure the success of	across New Zealand's	Outcomes in the	lysates of cyanobacteria
		Sjaan Bowie	our freshwater plans?	diverse and changing	Waikanae River	on alfalfa seedlings
			Olivier Ausseil	farmed landscapes	Catchment	Anne Colville
				Brandon Goeller	Stephanie Davis	
12:00-12:15pm	How reliable is your	Fish passage for the	Effects of climate	Working together to	Insights from long-	Declining glacier cover
	trend? Evaluating the	future: Innovating to	variability on water	manage Lake Whatihua	term State of	re-shapes global river
	deviation of estimated	restore fish migration	quality trends	for the next generation	Environment	algae communities
	slopes from true trends	routes for sustainable	Shirley Hayward &	Maddison Jones	monitoring in Dune	Nicky Kerr
	in lake water quality	freshwater food systems –	Caroline Fraser		lakes in Northland	
	time series	Nicki Duncan*			Suha Sanwar	
	Deniz Ozkundaki					
12:15-12:30pm	From Biogeography to	Fish passage at	Developing measures of	Investigating	Lake biodiversity	Cyanobacteria, BMAA
	Action: Toward	pumpstations:	river function for use in	filamentous algae	estimates vary with	and Motor Neurone
	Landscape	Infrastructure solutions	long-term waterway	attachment by rhizoidal	environmental DNA	Disease: Are there risks
	Management of Non-	Alicia Williams	monitoring and	differentiation to	collection method	for Freshwater
	Migratory Galaxias Fish		assessment programs	promote algae	and sampling	Scientists
	Species		Ryan Burrows	establishment on	location	Anne Colville
	Hossein Valikhani			filamentous algae	Georgia Thomson-	
				nutrient scrubbers	Laing	
				Mashanta Mohsin		
12:30-1:30pm	Lunch / Kindly sponsored	d by EOS Ecology				
1:30-2:00pm	Keynote 3 - Will Higgiss	on, University of Canberra				
	- Christy Fellows Lectur	'e -				
	Planning and Evaluating I	Environmental Watering for Ve	egetation Outcomes			

			MONDAY 01 DEC 20	25		
Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
Theme	Threatened species conservation 1	Trans-Tasman innovations in fish passage & screening: advancing connectivity and conservation 2	Reimagining freshwater monitoring and indicators 2	Food webs and environment restoration 1	Monitoring the health of freshwater 2	What do decision makers need to hear from expert witnesses? Guidance for early career experts.
Session Chair	Martha Jolly	Paul Franklin	Rick Stoffels	Michelle Hobbs	Georgia Thomson- Laing	Richard Allibone & Mike Freeman
2:00-2:15pm	Conservation status of New Zealand freshwater fishes – assessments, approaches, and applications Nicholas Dunn	Rock Ramp Fishways: Evolving Designs for Diverse River Systems in Australia and New Zealand Tim Marsden	A call for dynamic and adaptive monitoring – Angus Webb	The effect of coastal lake macrophyte collapse on the crossecosystem prey resource landscape for long fin eels Simon Stewart	The Darling Baaka River Health Program: An in-depth study of river health and recovery Kathryn Korbel	
2:15-2:30pm	Digital Innovation for Inanga Conservation: From Regional Pilot to National Implementation through ESRI-Based Tools and Predictive Modelling Nic Naysmith	Evaluating Low-Cost Methods for Fish Passage Remediation in Small Streams Trevor James	Are trends in species occupancy or an index of biotic integrity more useful for guiding fish conservation planning? Richard White	Trophic interactions of non-native and native piscivores in shallow, lowland lakes in the Wellington region, New Zealand Alton Perrie*	Revealing ecosystem stress in the lower Darling Baaka through macroinvertebrate monitoring Grant Hose	
2:30-2:45pm	Does trout suppression enhance population performance of river- resident galaxiids? Naomi Heller*	Decoding migration in a changing climate: insights from 35 years of fishway monitoring Ivor Stuart	Detecting the undetected: evaluating snorkelling as a monitoring tool for freshwater mussels in non-wadable reaches Ben Crichton	Aquatic-terrestrial linkages and biodiversity spillover in forest streams Frank Burdon	Mind that step: Understanding the changes that come with adopting National Environmental Monitoring Standards for macroinvertebrate monitoring Chris Meijer	

			MONDAY 01 DEC 20	25		
Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
2:45-3:00pm	Graph theory: an attractive approach to improve threatened species management at the catchment scale Rupert Mathwin	Breaking Barriers: Long- Term Effects of Connectivity Restoration on Urban Fish Populations James Shelley	Developing low-cost technology for automated monitoring of greenhouse gases and biodiversity in freshwater systems Martino Malerba	Restoration of floodplain wetlands: Indicators, restoration techniques and sampling methods Sally Maxwell	Optimising eDNA detection of kōura: effects of biomass, diurnal activity and DNA decay Konstanze Steiner	
3:00-3:15pm	Protecting Kākahi: Pest Fish Exclusion Enclosures in Lake Rototoa Belinda Studholme	Pumping Past Barriers: A Preliminary Look at Australia's First Fishheart™ Fishway Trial Craig Boys	Wai-spy: A New Lens on Awa Safety David Wood	Flood magnitude affects fatty acid food web quality in a free-flowing tropical river-floodplain Colton Perna*	Restoring urban billabongs in partnership with Wurundjeri Woi- wurrung Traditional Owners Joe Greet & Narrup Rangers	
3:15-3:45pm	Afternoon Tea / Kindly sp	onsored by Earth Sciences Ne	ew Zealand			
Room	Plenary-Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
THEME	Population and community ecology 1	Trans-Tasman innovations in fish passage & screening: advancing connectivity and conservation 3	Reimagining freshwater monitoring and indicators 3 + (from 5:00pm) Urban freshwater systems 1	Food webs and environment restoration 2	Monitoring the health of freshwater 3 + (from 4.45pm) Environmental flows	Science and cultural- based solutions for lake stewardship in an uncertain future
Session Chair	Frank Burdon	Paul Franklin	Ryan Burrows	Simon Stewart	Tina Bayer	Deniz Ozkundakci
3:45-4:00pm	Are dispersing caddisflies phenotypically different from conspecific residents?	Group swimming significantly decreases time to passage success for a galaxiid species Rachel Crawford*	The next frontier in biological monitoring: measuring against the counterfactual Ross Thompson	Potential impacts of low flows on fish foodscapes and production in rivers Rick Stoffels	The strength and reliability of science-informed Community Based Monitoring (CBM) Courtney Bosse	Lake ecosystem responses to extreme storm events: Insight from Cyclone Bola Marcus Vandergoes

			MONDAY 01 DEC 202	25		
Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
4:00-4:15pm	Biodiversity responses in temporary waters due to a rapidly drying climate Zac Kayll*	Downstream fish passage at small-scale hydropower plants Josef Knott	Understanding the Water sustainability from key informant perspectives: insights from the Sydney basin Niruban Chakkaravarthy Dhanasekaran*	What nutrients are responsible for the higher microbial-driven organic matter decomposition in Melbourne streams affected by human land use? Elaine Yuen*	To what extent can we use seasonal data to monitor lakes? Tina Bayer	
4:15-4:30pm	Characterising the Contribution of Small Streams to Fish Biodiversity in New Zealand: A β-Diversity Approach Using eDNA Lovisa Ekelund*	The Fishheart Fishway: from Lapland to the Land Down Under Mika Sohlberg	Understanding what the right mix is for freshwater monitoring objectives in Aotearoa New Zealand Evan Harrison	Growing with the flow: Flood pulses generate resource and decapod booms in a regulated river-floodplain system Alana Cormican*	Evaluating eDNA for National Macroinvertebrate Metrics in New Zealand Streams Elizabeth Graham	Are we underestimating biodiversity decline? Community homogenisation among lakes hides local biodiversity loss Rose Gregersen
4:30-4:45pm	Startling diversity in a Papua New Guinea River Holly Emery-Butcher	Use of an Improved Fishway Performance Metric to Optimise Fishway Operation Thomas Ewing	Using phytoplankton to understand ecosystem health in the Darling Baaka River after large fish death events Simon Mitrovic	Defining the fundamental and realized niche of kōaro (Galaxias brevipinnis) in isolated, trout-free lakes Lauren Hitt*	What happens in deep lakes? Modelling and observations from Lake Wānaka David Plew	Improving Freshwater Quality through Catchment-Scale Collaboration and On- Farm Action – The Lake Wanaka Wai Ora Project Chris Arbuckle
4:45-5:00pm	Temporal variability of instream vegetation communities Scott McKendrick	Development of a Fish Capture Facility for Testing Fish Health and Condition after Interaction with a Fish Exclusion Screen Tony McCormick	Quantification of phosphorus and dissolved organic carbon loads from street trees to urban stormwater pollution in the Lake Tuggeranong catchment Rodney Ubrihien	Experimental saltwater intrusion in tropical freshwater wetlands causes food web simplification and fatty acid food quality trophic cascade Tegan Dedman*	A decade of evaluating ecological outcomes from environmental watering in the Murray–Darling Basin: the challenge of telling a cohesive story Jackie O'Sullivan	Indigenous Ecological Economics - creating space for holistic, customary approaches to Freshwater Valuation Mereana Wilson-Rooy*

Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
5:00-5:15pm	Positive effects of a range-shifting caddisfly on high-elevation food webs Amanda Klemmer	A Field-Based Method for Modelling Pump-Induced Hydraulics: Fish Threats and Screen Mitigation Potential Patrick McSweeney*	Nutrient contributions from urban street sweeping material inside concrete stormwater pits Megan Fluke*		Flow regime and water temperature influence recruitment success of blackfish in south- eastern Australia Frank Amtstaetter	People and power in lake stewardship: a review of the human dimensions of lake restoration Kiely Mcfarlane
5:15-5:30pm	Exploring metapopulation dynamics of amphidromous species Charlie Hinchliffe	Invisible barriers: closing knowledge gaps on infiltration galleries for screening native fish Mike Hickford	Potential effects of elevated salinity levels on freshwater stream ecosystems in the Northern South Island of New Zealand Mark Hamer		Getting along at Jemalong - An interagency watering trial Alica Tschierschke	Reconstructing the Past Environment of the Lower-Birrarung Billabongs Patrick Kennedy* & Narrup Rangers*
5:30-8:00pm	SWIM Focus Group Mee Rooms: Dobson 1 & 2	etings			•	
5:45-6:30pm	_	y Davis, Charles Darwin University of the hydrological and eco	-	ing freshwater refugia in a	warming world	

			TUESDAY 02 DEC	2025			
7:30-8:30am	NZFSS/AFSS Executive Co Venue: Child Sister Café,						
8:50-9:00am	Welcome – Day 2						
9:00-9:40am	· ·	dith, Environment Canterburce management career wise	-				
9:40-10:20am	- Hilary Jolly Memorial Lo Looking backwards. Look Room: Rakaia	ing forwards Hillary Jolly Me	dal talk				
10:30-11:00am Room	Morning Tea / Kindly spon Rakaia	sored by Environment Cante Dobson 1	rbury Dobson 2	Dobson 3	Dobson 4	Pagloy	
THEME	Enhancing freshwater ecosystem's resilience to change + (from 11:45) Future-proofing freshwater ecosystems: from science to action to restore and build resilience 1	Enhancing freshwater ecosystem's resilience to change + (from 11:45) Future-proofing freshwater ecosystems: from science to action to restore and build Trans-Tasman Urban freshwater systems 2 Urban freshwater systems 2 Environmental flows 2 Environmental flows 2 Threatened species conservation 2 Vorkshop: Communicating your freshwater science with impact					
Session Chair	Angus McIntosh	Gerry Closs	Jenny Webster-Brown	Jason Nicol	Channel Thoms	Katharina Doehring	
11:00-11:15am	Room for the river: exploring potential ecological effects from historic narrowing and exotic vegetation in three New Zealand braided rivers Michelle Greenwood	Developing pipe fishways to reconnect Australian fish passage Jasmin Martino	Assessing thermal regimes in Auckland streams under urban pressure Nadia Dikareva	Unveiling the truth: Large Scale Insights into Riparian Vegetation Responses to Environmental Flows Chris Jones	Making room for everyone: The critical plight of Aotearoa New Zealand's forgotten fish Martha Jolly*		

			TUESDAY 02 DEC	2025		
Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
11:15-11:30am	Mākara Whitua: Retrofitting Agricultural Land for Freshwater Restoration Tyler Florance*	Hard knocks and pressure drops: combined laboratory and field observations reveal hidden risks to fish migrating past water control structures Craig Boys	Nutrient dynamics in an urban lake Manuja Lekammudiyanse	Role of environmental water in the maintenance of aquatic vegetation in Lakes Alexandrina and Albert, Murray Darling Basin, Australia Jason Nicol	Northland Īnanga Spawning Habitat Restoration Project (NĪSHRP) - Final Results Tracey Phillip	
11:30-11:45am	Fish monitoring for the NPS-FM: experiences in establishing a new monitoring programme Graham Surrey	Comparing ecological effects of innovative and conventional hydropower in Europe Juergen Geist	A leafy solution? The effectiveness of tī kōuka (Cordyline australis) as habitat additions for macroinvertebrate communities in an urban stream Hannah Whittall*	Water quality outcomes of an environmental flow delivery to a Ramsar site in the Southern Murray- Darling Basin, Australia Xiaoying Liu	On the Precipice of Extinction: Genetic Data in the Conservation Management of In Situ and Ex Situ Collections of the Critically Endangered Muehlenbeckia Tuggeranong Isobel Walcott	
11:45-12:00pm	Slow, fast and stable: Productivity variation underpins riverscape resilience Angus McIntosh	Rock Ramp Fishways in New Zealand: Evidence-Based Solutions for Enhancing Fish Passage Cindy Baker	The hidden housing crisis: investigating the significance of habitat quality in urban stream systems Lily Ashenden*	Nitrate Transport Dynamics Between Groundwater and Surface Water in the Pukekohe Area, South Auckland Laura Buckthought	Shortjaw kōkopu in the Waikato: two case studies Josh Smith	
12:00-12:15pm	More than mud: The drivers of Chatham Island mudfish distribution Grace Fortune-Kelly*		Scaling Visual AI for Discharge Detection & Stormwater Compliance in Auckland: From Complexity to Operational Reality James Dare & Bianca Lilley	Linking groundwater nutrients from septic tanks to littoral ecosystems in Lake Tarawera Sarah Tetzlaff*	What's for dinner? Dietary differences of glass eels (Anguilla spp.) in New Zealand Siobhan Nuri*	

Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
12:15-12:30pm	Are We Ignoring Biology?		Automated Detection			
	A Global Review of		and Ecological Risk			
	Biotic Interactions in		Assessment of			
	Freshwater Restoration		Wastewater Discharges			
	Outcomes		Using Multivariate			
	Lydia Gilbert*		Continuous Water			
			Quality Data			
			Ebrahim Hussian			
12:30-2:00pm	Lunch					
	NZFSS AGM (Dobson 1)					
	AFSS AGM (Dobson 2)					
Room	Plenary-Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
Theme	Ecological forecasting in	Modelling to inform	Threatened species	Collaborative research	Future-proofing	Workshop:
	freshwaters	decision-making 1	conservation 3	for freshwater fish 1	freshwater	Unmasking human health
			+ (from 2:45pm)		ecosystems: from	Quantitative Risk Assessment
			Policy and Practice 1		science to action to	(QRA) for freshwater
					restore and build	recreation
					resilience 2	
Session Chair	Whitney Woelmer	Leon Barmuta	Richard Allibone	Joanne Clapcott	Naomi Wells	Beverley Horn
2:00-2:15pm	An ecological forecast	Concrete, canopy and	The population health of	From masks to wishing	Designing a multi-	
	algal biomass in an	climate: how will urban	the Manuherekia alpine	trees: Creative methods	species habitat	
	important re creational	stream invertebrates	galaxiid and surveys for	for reimagining	restoration for an	
	lake	respond to future	further galaxiid	relationships with	isolated segment of	
	Jonathan Tonkin	environments?	populations in the upper	freshwater	the Motueka river	
		Thomas Wilkins*	Manuherekia catchment	environments	delta	
			Richard Allibone	Katharina Doehring	Monique Patterson	
2:15-2:30pm	Integration of	The heavy implications of	Tracking Canadian	"What would a tuna	Flagship turtle	
	multisource data on	model uncertainty: How	Juvenile Chinook	say?" Affective	species highlights	
	algal blooms informs	wrong can our catchment	Salmon with Acoustic	approaches for engaging	impacts of multiple	
	the development of	flow and load estimates	Telemetry	with freshwater futures	stressors of	
	ecological forecasts -	be?	Selena Carl*	Joanne Clapcott	urbanisation and	
	Whitney Woelmer	Patrick Durney			climate change on	
					wetlands	
					Jane Chambers	

Room	Plenary-Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey		
2:30-2:45pm	Modelling lake ecosystem responses to extreme weather events Matthew Prentice	Predicting algal debris risk at power plant intakes in Lake Ontario Anika Kuczynski	Trialling traditional Maori whakaweku traps for Tasmanian invertebrates in freshwater streams Caitlin Silberberg*	Canal fishing: instrumentalising nature or stepping stone to environment stewardship? Aisling Rayne	Kaitiakitanga o te kanakana: Captive breeding opportunities for kanakana (pouched lamprey; Geotria australis) Luka Finn			
2:45-3:00pm	Evaluating freshwater fish vulnerability and adaptive capacity to climate change in NZ Andrew Watson	Structural model sensitivity alters predictions and affects management decision- making ability Galen Holt	Offsetting: Challenges and opportunities Mark Lowe	Reclaiming hidden knowledge and freshwater futures in Murihiku Kasmira Peterson				
3:00-3:15pm	As simple as possible? A three-zone predictive framework for wetland plant communities with quantifiable hydrological thresholds Dave Deane	Circulation Patterns and Ecological Response in a Large Lake: High- Resolution Modelling Evidence from Lake Taupō Aidin Jabbari	Can carbon credits pay for more sustainable farm ponds? A cost- benefit analysis Karunapala Uyanwattage Dona Nipunika Hansani*					
3:15-3:45pm	Afternoon tea		-					
3:45-5:30pm	Poster Session – kindly sponsored by Envco Global See presenter list on next page							
5:30-6:30pm	Room: Rakaia	Early Career/Mentor Networking Event (ticketed event) Room: Rakaia						
6:30-7:45pm	Free Public Lecture Event Room: Rakaia	Free Public Lecture Event - Our Freshwater Taonga - Shining the spotlight on some threatened beasties of Aotearoa						

			POSTER PRESENTATIONS *= Student Presentation
Poster #	First Name	Last Name	Poster Title
1	Bryony	Alden*	Pondering microplastics: assessing microplastic contamination of freshwater ponds in Aotearoa New Zealand
2	Janet	Anstee	DION: A High-Fidelity Darkwater Inland Observatory Network Supporting Satellite Remote Sensing and Water Quality Modelling in Australia
3	Mariana	Basilio	Integrated Catchment Management in Bream Bay: A Collaborative Action Plan for Water Quality and Biodiversity Enhancement
4	Nina	Batucan	Effects of two common contaminants, ibuprofen and imidacloprid, on invertebrate and periphyton communities: A field mesocosm study
5	Victoria	Cantalapiedra*	Investigating the effects of freshwater acidification on individual and community level responses in microalgae in Te Awa o Waikato
6	Zachary	Clark*	Relationships between periphyton, land-use and environmental variables in Aotearoa, New Zealand: Patterns, drivers and implications
7	Katie	Collins	Alum dosing Lake Moawhitu, Rangitoto ki te Tonga (D'Urville Island)
8	Ciaran	Cullen*	Germination requirements and hydrochory of semi-arid floodplain-wetland forbs
9	Caitlin	Daley*	The Tiaki Maniototo Project, a Jobs for Nature initiative in the Upper Taieri Catchment
10	Christopher	Davenport*	Returning Home by the Sea: A Study into the recruitment of Galaxius Maculatus
11	Ciara	Espiner*	Swim like nobody's watching: Using remote underwater videography to observe fish behaviour in wooded stream pools
12	Nina	Fisch	The problem with PFAS
13	Georgia	Goodsell*	Investigating soil health markers as indicators for wetland restoration success.
14	Megan	Hamersky*	Assessing the influence of extreme weather on lake functions using high-frequency buoy monitoring
15	James	Hitchcock	Cold-water pollution: how hypolimnion releases from large dams alter thermal regimes and downstream ecosystems
16	Lauren	Hitt*	What's in a name? The need to develop grouping terms that reflect the different life history strategies of Aotearoa galaxiids
17	Ben	Humphreys	Groundwater -surface water connectivity and river health in the Lower Darling Baaka River
18	Jasmine	Lane*	From Wetlands to What's Left: Giant Kōkopu (Galaxias argenteus) in a Fragmented Freshwater Landscape
19	Simone	Langhans	Smart catchment planning for a changing freshwater future
20	Kathryn	Korbel	Death by a thousand (head)cuts? Alluvial gullies and geomorphic condition of the lower Darling Baaka
21	Kate	Mathers	From stream to bench: assessing efficiency of desiccating filter kits for eDNA preservation
22	Nicole	McCasker	Validating age estimation from shell ring deposition in the river mussel Alathyria jacksoni (Unionoida: Hyriidae)
23	Kiely	McFarlane	Legacy issues in freshwater fish management in Aotearoa
24	Chris	Meijer	Reporting the full story: Developing a framework to include habitat in state of the environment reporting
25	Andrew	Rossaak	An innovative and practical method to minimise harm to fish in a complex streamworks project
26	Tasman	Sadler*	Investigating The Impacts of Trout on Macroinvertebrates in the Australian Alps
27	Wonder	Sekey	Cross-realm Spatial Conservation Planning for Diadromous Species
28			

	Kerry	South	Swimming Upstream: Data-Driven Insights into Fish Passage
29	Ksenia	Trifonova*	Hydrodynamic and Thermal Controls on Sediment-Water Exchange of Nutrients and Trace Elements in Freshwater Reservoirs
30			Using eDNA to evaluate ecological rehabilitation measures for threatened rheophilic fish: insights from a heavily modified river in North-
	Luc	Visser*	Western Europe
31	Scientists and First Nations people working in partnership to undertake monitoring and research on environmenta		Scientists and First Nations people working in partnership to undertake monitoring and research on environmental flows in the Mid-Murray
	Robyn	Watts	River
32	Mel	Whiting*	Assessing the impacts of land use change and introduced perch on biodiversity and food webs in Lake Denny, Ōtūwharekai
33	Matthew	Wylie	Fish germ cell cryobanking and transplanting for conservation in Aotearoa-New Zealand?
34	Ana	Zupancic*	Cutting out the host to determine freshwater food webs: Using CRISPR-Cas9 to improve prey detection in diet metabarcoding analysis.
35	Megan	Fluke*	Nutrient contributions from urban street sweeping material inside concrete stormwater pits

	WEDNESDAY 03 DEC 2025							
8:50-9:00am	Welcome – Day 3							
9:00-9:40am	Keynote 6 - Erin Hotchkiss, Virginia Tech Taking the pulse of inland waters: Opportunities and challenges associated with using dissolved oxygen to monitor the health of freshwater ecosystems Room: Rakaia							
9:40-10:20am	Keynote 7 - Phil Duncan, University of Canberra - Biame Lecture - Principles & Practice, Indigenous Engagement in Water Management, The Gamilaroi Experience Room: Rakaja							
10:30-11:00am	Morning tea							
Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey		
Theme	Honouring freshwater as a taonga – Māori-led initiatives in freshwater management and restoration	Invasive species - detection, surveillance and management 1	Collaborative research for freshwater fish 2 + (from 12:15pm) Wetland protection and preservation 1	Sam Lake session 1	Emerging techniques in freshwater science	Open Panel Discussion: Challenges, barriers and solutions to improving freshwaters		
Session Chair	Carly O'Connor & Jane Kitson	Elizabeth Graham	Joanne Clapcott	Michael Douglas	Martino Malerba	Jon Harding		
11:00-11:15am	Moawhitu: Cultural and scientific collaboration to restore a lake and wetland Neil Deans	Chasing thin signals: Optimising eDNA tools for rare and allocthonous targets in lotic systems Anastasija Zaiko	Revitalising mātauraka and governing taonga fisheries Sally Reihana	Emeritus Professor Sam Lake (1941-2025): eminent freshwater ecologist, extraordinary colleague, generous mentor, great friendand keen fisherman Barbara Downes	Do insights from emerging technologies correspond with known wetland condition? Catherine Leigh			
11:15-11:30am	Mussels as kin, food and river health indicator – Michelle Hobbs*	Corbicula fluminea (Clam) impacts on natural planktonic communities in lakes Kārapiro and Maraetai Karl Safi	Understanding NZer's connection with freshwater fish Marc Tadaki	Snapshots from the 1970's: Recollections of Sam Lake's early academic career and influence Jenny Davis	eDNA monitoring of waterbirds for the Darling Baaka River Health Project Grant Hose			

Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey
11:30-11:45am	Tino rangatiratanga in highly modified systems: A comparative case study on Waitarakao and Waituna lagoons Lucy Coulston*	Does lake snow production enhance nutrient acquisition in Lindavia intermedia Phil Novis	Unpicking feedback loops within the social- ecological fabric of freshwater fisheries management Robin Holmes	Sam Lake – Outlier Ben Gawne	Environmental DNA as a tool for rapid zooplankton assessment in lakes in Aotearoa New Zealand Joëlle Lousberg*	
11:45-12:00pm	Whakaora i te mauri o Wairarapa moana: Pathways towards Maori-led restoration of macrophyte communities Katie Brasell	Ecological and genetic assessment of non- native rainbow trout populating a high- altitude lake of Chile's altiplano Daniel Gomez-Uchida	Translocation of Gobiomorphus cotidianus into headwaters within a WLG ecosanctuary-a restoration case-study in developing a healthy protocol. Kari Beavan	Stream ecology is ripe for a scientific revolution Barbara Downes	New approaches to characterising groundwater in northern Australia Erica Garcia	
12:00-12:15pm	Innovation in wetland preservation: Reflections on four years of building puddles Blair Reid	Grazing clearance and rejection rates of the invasive Gold clam, Corbicula fluminea: A NZ case study Karen Thompson	The cultural values of morihana (wild goldfish) in Te Arawa lakes Nicole Hunt	Factors limiting the supply and retention of coarse carbon resources. in rivers with different land- use legacies Wim Bovill	Trend analysis Linda Robb	
12:15-12:30pm		On Alert: Strengthening national freshwater biosecurity through surveillance for high-risk species not naturalised in Aotearoa Rachel Hooks		Systems on the brink: Two decades of fish population dynamics in the Granite Creek system amid ongoing environmental change Nick Bond	Beyond barcodes: Unravelling aquatic food webs in native and pine forest streams using eDNA Mael Marguet*	
12:30-1:30pm	Lunch					

	WEDNESDAY 03 DEC 2025							
Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey		
Theme	Aquatic biogeochemistry and ecosystem processes 1	Population and community ecology 2 + (from 2:45pm) Policy and Practice 2	Managing freshwater environments in a changing climate	Sam Lake session 2 + (from 2:30pm) Non-migratory galaxiid life history	Access2Experts: Projects and their key outcomes "Access 2 Experts - delivering free expert advice to New Zealanders"	Open Panel Discussion: Professional Wetland Scientist bodies and their role		
Session Chair	Jenny Webster-Brown	Phil Jellyman	Erica Garcia	Michael Douglas	Raymond Chang	Swapan Paul		
1:30-1:45pm	Aged carbon in small streams: Global Patterns and evidence of drivers from coastal Australia Ryan Felton*	The impact of terrestrial leaf diversity on aquatic ecosystem functioning in Waikato streams Martin Sarkezi*	Cave critters and climate change: Thermal tolerance of the Tasmanian Mountain Shrimp (Anaspides) Josh Greenhill*	Birds in a NSW coastal forest and the importance of ENSO: A link inspired by Sam Lake's drought book Richard Marchant	Finding practical solutions to data gaps to support management of periphyton and nutrients in Tairāwhiti Gisborne rivers Mark Heath			
1:45-2:00pm	Continuous monitoring of dissolved CO2 in four irrigation farm dams during the Austral summer irrigation season Jackie Webb	Expansions, extirpations, and extremes: lessons from 35 years of caddisfly data from Rocky Mountain subalpine wetlands Hamish Greig	Green farm dams: Anthropogenic water bodies as refugia for macroinvertebrates in a warming climate Micalah McCulloch*	What happens if the drought never breaks? Ecological and social responses to climate change in Southwest Western Australia Michael Douglas	EDNAbling catchment care groups Emma Willmore			
2:00-2:15pm	Diurnal fluctuations in dissolved gases (O2, CO2, N2O) illuminate instream nutrient cycling in braided rivers Naomi Wells	South Canterbury Coastal Waterbodies: A synopsis of habitat characteristics, biological diversity, and community ecology Sriyan Jayasuriya	Living with the extremes: Life history trait responses of Deleatidium to drying pressure and floods in the Selwyn Waikirikiri River Anna Meikle*	Resilience of freshwater biodiversity to drought and drying in a global biodiversity hotspot Belinda Robson	Intergrated catchment management in Bream Bay: A collaborative action plan for water quality and biodiversity management Mariana Basilio			

2:15-2:30pm Se ab inv	akaia easonal variation in the	Dobson 1	Dobson 2		
ab inv	easonal variation in the		DODSON 2	Dobson 3	Dobson 4
an nu	bundance of vertebrates in alpine eadwater landscapes nd its effect on the utritional landscape ithara Sirimanna*	Home of the world's largest trout: Understanding trout movement dynamics in New Zealand's most popular sports fishery Phillip Jellyman	Nutrient versus non- nutrient drivers of river ecosystem health in a subtropical environment in New Zealand Manas Chakraborty	Sam: "Can't you just run a PCA through it" Me: "Nup". Instead, some much better ideas from Sam Lake's storied career Leon Barmuta	Stream sampling for NZ fresh water mussels in slow moving lotic systems using eDNA Neil Henderson
ph po wi otl	ivestigating internal hosphorus loading otential in Lake Ngatu ith comparisons to ther Northland lakes irill Shchapov	After the cut: size and stability of populations declines after disconnecting experimental habitat networks Yiwen Xu*	Restoring riparian wetlands for carbon and nitrogen benefits and other critical ecosystem functions Lukas Schuster	Persistence under pressure: River disturbance and habitat diversity shape Galaxias anomalous distribution in the presence of brown trout Gerry Closs	Up the gorge without a willow: The use of local knowledge and specialist input to support willow removal in Ida Valley Shelley McMurtrie
ap me se flu Re Wa	ander-based pproaches to neasuring the in situ ediment-water solute ux in deep lakes: esults from Lake /ānaka avid Plew	Walking the talk: giving effect to Te Mana o Te Wai through genuine partnership in catchment management Chloe Price	Warming waters and falling oxygen: Climate impacts on a deep oligotrophic lake Aidan Jabbari	Inferring source–sink dynamics from larval otolith signatures in a non- migratory galaxias Karen Mayhew	Rongo: Enabling kaitiaki through access to environmental data tools Chris Keenan
3:00-3:15pm		The imperfect practice of offsetting - case studies Andrew Rossaak	Keeping Cool in Warming Streams: Investigating Thermoregulatory Behaviour of an Australian Alpine Caddisfly Ualani Miller*	Spatiotemporal population dynamics of a native landlocked migratory fish and the influence of environmental drivers Liam Taylor*	

WEDNESDAY 03 DEC 2025							
Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey	
Theme	Protecting freshwater environments in the face of changing policy and regulations	Invasive species – detection surveillance and management 2	Remote sensing application in freshwater management + (from 4:30pm)	Aquatic biogeochemistry and ecosystem processes 2	Science Communication	Ngāi Tahu freshwater claim: The journey and next steps	
	+ (from 4:30pm) Policy and Practice		Wetland protection and preservation 2				
Session Chair	Justine Quinn	Brendan Hicks	Katie Turlington	Jenny Webster-Brown	Katharina Doehring	Donna Sutherland	
3:45-4:00pm	Ecological values of the Carrington and Taratahi water races, Wairarapa Brett Stansfield	Passive sampling methods for investigating phenology of the invasive bivalve Corbicula fluminea in the Waikato River Elizabeth Graham	Aquawatch: A multidisciplinary, process- based and data-driven approach to freshwater monitoring, assessment and forecasting Janet Anstee	Beyond Nitrate Toxicity: The Overlooked Role of Phosphorus in Nutrient Enrichment and Periphyton Growth Kimberley Dynes	Temporary habitat additions: a multipurpose tool for community engagement, monitoring and ecological recovery Issie Barrett	A new dawn for freshwater: The transformational vision of Ngāi Tahu for freshwater management in our takiwā Gabrielle Huria	
4:00-4:15pm	For better or worse? Potential implications of proposed national wastewater environmental performance standards for freshwater quality and management Juliet Milne	Room for two? Assessing interactions between native freshwater mussels and invasive clams in the early stages of Corbicula fluminea invasion Michele Melchior	Mapping and monitoring Australia's inland water using remote sensing Margaret Harrison	Unravelling spatio- temporal dynamics of water quality and associated risks to ecosystem health of the Darling Baaka River Kathryn Korbel	LAWA- reflections on a decade of communicating environmental information Roger Young	Wai māori hauora — inviting collaborative research and monitoring to prioritise the wellbeing of freshwater Anne Glackin & Jessica Riddell	
4:15-4:30pm	Offsetting intentions and outcomes: Going beyond the models to achieve meaningful ecological gains Justine Quinn	Sleeper weeds awaken: Ecological shifts and management challenges of invasive macrophytes in remote springs Saskia Brown*	What I've learned from four years of freshwater ecoaccoustics Katie Turlington*	Urea transformation dynamics in soil and water James Latimer	Learning from collaborating badly Ben Gawne	Korero on topic led by Jessica Riddell, Gabrielle Huria and Anne Glackin	

	WEDNESDAY 03 DEC 2025							
Room	Rakaia	Dobson 1	Dobson 2	Dobson 3	Dobson 4	Bealey		
4:30-4:45pm		Tekapo Military Training Area revisited: Defining new galaxiid and salmonid population distributions with new altitude limits discovered Richard Allibone	Hydropedology as a tool for wetland management: A South African context Wayne Westcott	Vertical patterns of nitrous oxide concentration in surface and subsurface waters of braided rivers Mohammad Arar*	Nature Agents: A regional approach to supporting school-led freshwater monitoring and teacher engagement Jessica Halsey			
4:45-5:00pm		UAV mapping and GIS analysis of invasive willow within the Hakataramea catchment Baily Lelieveld	Predicting floodplain wetland disconnection to inform biodiversity conservation in northern Australia Kaline De Mello	The impacts of hydrology on stream metabolism: A comparative study of perennial and nonperennial systems Ryan Shojinaga	Small dataset, meaningful patterns: Community water quality monitoring in the upper Waipoua catchment Alex James			
5:00-5:15pm				, , , , , , , , , , , , , , , , , , ,	Bridging the gap: From water samples to metrics and insights Nick Snellgrove			
5:15-5:30pm	Closing ceremony – Dobs	son Foyer	•	•	-	<u>'</u>		
6:30pm onward	Conference dinner – Te Pae Convention Centre Theme: Circus/Carnival							

THURSDAY 04 DEC 2025

CONFERENCE FIELD TRIPS

Refer to conference website for details