

ANNUAL CONFERENCE 2025

LEARNING FROM THE PAST SHAPING THE FUTURE



Conference Handbook





Welcome to the GSNZ Annual Conference 2025 – Learning from the Past, Shaping the Future

Tēnā tātou katoa,

We would like to welcome you to the 2025 Geoscience Society of New Zealand conference in Tāmaki Makaurau Auckland. With our theme, "Learning from the Past, Shaping the Future", we look forward to showcasing a wide range of geoscience from the fundamental to addressing the big societal challenges that Geoscience can contribute to.

I orea te tuatara ka puta ki waho - A tuatara prodded with a stick will come out (of its hole) i.e. a problem is solved by continuing to find solutions.

Running from 24th-27th November on the Owen G Glenn Business School on campus at Waipapa Taumata Rau – The University of Auckland, the conference will include oral and poster sessions, pre-conference workshops and field trips.

Whaowhia te kete mātauranga - Fill the basket of knowledge.

Social functions will include an icebreaker event, gala dinner and less formal opportunities to engage.

Nāu te rourou, nāku te rourou ka ora ai te iwi - With my food basket and yours (i.e. working together) the people will thrive.

Affordable university accommodation will be available for attendees in the heart of the city. The wonderful EarthFest initiative will continue into a 3rd year in conjunction with this conference.

The local organising committee looks forward to seeing you all in Tāmaki Makaurau Auckland in November.

Michael Rowe and **Jennifer Eccles**, Conference Co-Convenors

Sam McColl, President, Geoscience Society of New Zealand

LOCAL ORGANISING COMMITTEE

Aiden Milner, Auckland Council **Alexander Gold,** University of Auckland **Ayrton Hamilton**, University of Auckland Florence Canal, Auckland Council Gerd Sielfeld, University of Auckland James Muirhead, University of Auckland Jan Lindsay, University of Auckland **Jennifer Eccles,** University of Auckland Joa Paredes Marino, University of Auckland Jon Tunnicliffe, University of Auckland Kasper van Wijk, University of Auckland **Katharine Gilchrist,** *University of Auckland* Laura McDonald, University of Auckland Ludmila Adam, University of Auckland Martin Brook, University of Auckland Michael Rowe, University of Auckland **Paul Augustina,** University of Auckland Sam McColl, GNS Science, Te Pū Ao Victoria Miller, GNS Science, Te Pū Ao

EARTHFEST

Jenny Stein, Massey University
Joa Paredes Marino, Auckland University
Aidan Milner, Auckland City Council
Xuemei Tang, GNS Science, Te Pū Ao
Ilmars Gravis, Geoconservation Trust
Aotearoa Pacific

Annahlise Hall, University of Auckland

Conference Organisers



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Sponsors and Exhibitors

The conference organising committee acknowledges and thanks the following sponsors and exhibitors for their generous support and involvement in this conference. Their support has contributed towards our being able to provide a comprehensive programme of quality content and excellent value for all participants.

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EXHIBITORS





Plenary Speakers

Sian France

Hydrogeology as a driver of better project outcomes

Understanding how the ground has behaved in the past, and how it will behave in the future is a key component of good engineering design. There is a growing appreciation for the role of groundwater in engineering, but are we doing enough? How can we better respond to the compounding challenges ahead: the scale and complexity of projects, emerging contaminants of concern, climate change, balancing cost and risk, and all whilst doing more with (and for) less. Examples from large infrastructure projects will be used to highlight the role of hydrogeology, some reflections on the emerging challenges and how industry and the wider geoscience community might work closer to drive better project outcomes.



Biography

Sian France is a Technical Director in Hydrogeology at Beca, with more than 20 years of experience in hydrogeology. Sian has worked on a varying range of projects where the understanding of interactions between ground, groundwater and man-made structures is fundamental to good design, construction and environmental outcomes. Sian is passionate about the pragmatic use of analysis and modelling to help project teams understand the ground conditions and support decision making.

Sian was the site hydrogeologist for the Waterview Connection tunnels, more recently she has provided groundwater support for the Central Interceptor project, has led the development of groundwater supplies in the Bay of Plenty region, provided expert evidence to support clients through mediation of construction disputes, and is currently the Investigation Lead for the Waitematā Harbour Connections investment case for assessment of a second harbour crossing.

Plenary Speakers

Dan Hikuroa Being a Good Ancestor

Being a Good Ancestor is a deeply rooted concept in te ao Māori that emphasizes intergenerational responsibility, environmental guardianship, and spiritual connection to the natural world. In te ao Māori, humans are not separate from nature but part of it, bound by whakapapa to everything, and are guided by the fundamental, intertwined concepts of tika (truth, justice), pono (honesty, validity), and aroha (love, compassion). Together, they represent a relational, holistic understanding of the world, where one acts with truthfulness, integrity, and love towards others and the natural environment, fostering responsible and respectful relationships.



Whakapapa links people to the land, ancestors, and future generations. Being a good ancestor means making decisions today that honour these connections and protect the mauri (life force) of the taiao for those yet to come. This includes understanding ancestral stories and cultural patterns that inform how we relate to nature. Taiao refers to the natural environment—land, water, sky, flora, fauna—and the interconnected systems that sustain life. Kaitiakitanga is the practice of guardianship, rooted in tikanga and mātauranga Māori. It involves understanding and caring for the land, waterways, and ecosystems not just for personal benefit, but for communal and spiritual health and wellbeing. This ethic supports sustainable living and resilience in the face of climate change, environmental degradation and resource use. In this talk I will explore how being a good ancestor has informed my geoscience practice and invite you to consider how it might inform yours.

Biography

Dan Hikuroa (Ngāti Maniapoto, Waikato-Tainui, Ngaati Whanaunga, Pākehā) is a father, surfer and gardener. He is Associate Professor in Māori Studies, University of Auckland, UNESCO New Zealand Commissioner for Culture and world expert on weaving indigenous knowledge and science to realise the dreams and solve the challenges of the communities he works with. Formerly on the AGU Council, he is still a member of Ngā Aru Whetū, Te Pūtahi o Pūtaiao and Te Ao Mārama, Research Centres at Waipapa Taumata Rau - University of Auckland.

Plenary Speakers

Simon Upton

The importance of earth sciences to managing our environment

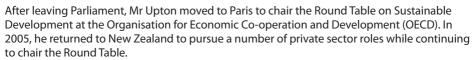
Biography

Simon Upton was sworn in as Parliamentary Commissioner for the Environment for a five-year term on 16 October 2017.

Mr Upton is a Fellow of the Royal Society of New Zealand and a Rhodes Scholar, with degrees in English literature, music and law from the University of Auckland, and an MLitt in political philosophy from Oxford University. He was sworn in as a member of the Privy Council in 1999.

A Member of Parliament between 1981 and 2000, Mr Upton held a variety of ministerial portfolios including

environment, research, biosecurity, health and state services between 1990 and 1999.



In April 2010 he returned to the OECD full time as Environmental Director, a post he held for seven years until returning to take up the role of Parliamentary Commissioner for the Environment.



Conference Programme

Monday 2	Monday 24 November 2025				
13.00 – 17.00	Pre-conference Workshop: Shaping the Future of Aotearoa New Zealand's Involvement in Global Scientific Drilling Programs (GeoDiscoveryNZ & ANZIC)				
16.30 – 19.00	Registration Desk Open Level 0, Exhibition Foye				
17.30 – 19.00	Icebreaker Reception (rsvp required) 1 drink voucher provided, additional can be purchased via eftpos	os			
19.00 – 21.00	Early-Career Catch-Up (rsvp required) Old Government House				

Tuesda	y 2	5 November 202	25			
08.00 – 17	.30	Registration Desk Open		Level 0, Exhibition	on Foyer	
08.45 – 09	.30	Opening Ceremony		098 Lectu		
09.30 – 10	.00	Environment	ton, Parliamentary Commissioner ciences to managing our environm ences New Zealand			
10.00 – 10	.30	Morning Tea		Level 0, Exhibition	n Foyer	
	098	Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 Roo	m	
10.30 – 12.00	1A Active Tectonics and Earthquakes of Aotearoa New Zealand Chairs: James Muirhead, University of Auckland; Andy Nicol, University of Canterbury; Jade Humphrey, University of Canterbury		1B Geoscience communication, education and outreach, going on around the motu and beyond Chairs: Jenny Stein, GSNZ; Ilmars Gravis, Geoconservation.org Natural Hazards Commission Toka Tū Ake Kindly sponsored by Natural Hazards Commission Toka Tū Ake			
10.30 – 10.45	of S Nev Coc Vic	servations from 20 Years deismic Data in Aotearoa w Zealand dee-Leigh Williams, toria University of llington*	Teaching volcanic crisis management and communication through authentic role-play: Celebrating 13 years of the Auckland Volcanic Field Eruption Simulation Exercise Jan Lindsay, Waipapa Taumata Rau / University of Auckland	Seafloor disturb on organic carbo New Zealand's s Ines Bartl, Univ Auckland	on storage in helf sediments	

Conference Programme (Tuesday continued)

10.45 – 11.00	Developing a 3D depth model and 3D rate model of Aotearoa New Zealand's upper-plate earthquakes Chris Rollins, Earth Sciences NZ	From Lava to Learning: Designing a Human-Centred Educational Game for Volcanic Hazards in Aotearoa New Zealand Kieron Wall, University of Canterbury*	Multiple canyon-sources of organic carbon in the 2016 Kaikōura event bed Scott Nodder, Earth Sciences NZ
11.00 – 11.15	A descriptive catalogue of earthquakes in Aotearoa New Zealand from historical written sources, 1840 to 1870 James Gurney, University of Canterbury*	DEVORA Outreach: Connecting Science and Society to Strengthen Auckland's Volcanic Readiness Annahlise Hall, The University of Auckland*	Multi-resolution 3D insights into a Pegasus Canyon- hosted submarine landslide, Aotearoa, New Zealand Susi Woelz, Earth Sciences NZ
11.15 – 11.30	A Fiordland Deep-learning Earthquake Catalogue: Deep-dive in its construction and observations Cédric De Meyer, Victoria University of Wellington*	Assessing the public reception of the new Bay of Plenty tsunami evacuation maps Kieran Miller, Emergency Management Bay of Plenty*	Early Results on Topographic Amplification in Submarine Canyons: Insights from OBS Deployment in the MAWACAAP Project (SO310) Christof Mueller, GNS Science
11.30 - 11.45	Insights on the Kinematic Rupture Properties of the 2016 Mw 7.9 Kaikoura Earthquake Kiran Kumar Thingbaijam, Earth Sciences NZ	Earthquake and tsunami risk communication with culturally and linguistically diverse communities in New Zealand Sajan Neupane, Massey University*	From seismic signal to coastal impact: ESNZ's tsunami science response in action Emma Taylor, Earth Sciences NZ
11.45 – 12.00	A Decade On: Reassessment of Kaikōura Earthquake Coseismic Deformation via InSAR Hassan Aleem, Victoria University of Wellington*	Illustrating uncertainty in natural hazard science advice: sharing Aotearoa New Zealand public survey results Danielle Charlton, Earth Sciences NZ	Transoceanic Tsunami Impact and Simulation in New Zealand from the 2025 Kamchatka Mw 8.8 Earthquake Aditya Gusman, Earth Sciences NZ

Conference Programme (Tuesday continued)

12.00 – 13.	30 Lunch & SIG Meetings		Level 0, Exhibition Foyer
12.30 – 13.30	Case Room 1 Paleontology SIG Meeting	Case Room 2 Early Career Researcher (ECR) SIG Meeting	Case Room 4 Progressing the Seismology SIG Meeting
	098 Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 Room
13.30 – 14.45	2A Active Tectonics and Earthquakes of Aotearoa New Zealand Chairs: James Muirhead, University of Auckland; Andy Nicol, University of Canterbury; Jade Humphrey, University of Canterbury	2B Geoscience communication, education and outreach, going on around the motu and beyond Chairs: Jenny Stein, GSNZ; Ilmars Gravis, Geoconservation.org	2C Volcanic processes shaping Aotearoa's landscape Chair: Gerd Siefeld, University of Auckland
13.30 – 13.45	From source to impacts: Advances in real-time analysis of NZ's big quakes through the RCET programme Anna Kaiser, Earth Sciences NZ	New Zealand heritage stones. Geoconservation for Earth Sciences outreach Ilmars Gravis, Geoconservation Trust Aotearoa Pacific	The timing, nature and impacts of New Zealand's supereruptions Simon Barker, Victoria University of Wellington
13.45 – 14.00	Evaluating Rupture Characteristics of the Potential Tsunamigenic Earthquakes in the Southwest Pacific Using Regional Array Seismology Amin A. Naeini, University of Auckland*	The UC Earth Science Garden: Bringing the field to the classroom Kate Pedley, University of Canterbury	Exposure of different ethnicities to volcanic ashfall in Aotearoa New Zealand Leighton Watson, University of Canterbury
14.00 – 14.15	The National Scale Probabilistic Coseismic Displacement Hazard Model for Aotearoa New Zealand Jack McGrath, University of Canterbury	Using seismic reflection data analysis to add relevance to undergraduate research projects Andrew Gorman, University of Otago	Shallow magma intrusion processes in the Auckland Volcanic Field Bruce W Hayward, Geomarine Research
14.15 – 14.30	Evaluating the New Zealand National Seismic Hazard Model 2022 with fragile geologic features Mark Stirling, University of Otago	Strategic Discussion and Q&A	Magmatic evolution of Whakaari volcano: Insights from marine cores Kieran JM Prowse, Victoria University of Wellington*
14.30 – 14.45	Fault growth Models from historical earthquakes and active faults in New Zealand Andy Nicol, University of Canterbury		Speleothems as Archives of Volcanic Eruptions: A High- Resolution Record from Mt Taranaki Nathan Collins, University of Auckland*

^{*} Student Presenter

Conference Programme (Tuesday continued)

	098 L	ecture Theatre	073 /OGGB4 Room	092 /OGGB3 Room	
15.00 – 16.00	Reart New Chair University Andy Cant	ctive Tectonics and hquakes of Aotearoa Zealand rs: James Muirhead, ersity of Auckland; Nicol, University of erbury; Jade Humphrey, ersity of Canterbury	3B Geoscience communication, education and outreach, going on around the motu and beyond Chairs: Jenny Stein, GSNZ; Ilmars Gravis, Geoconservation.org	3C Exploring the Frontiers of Marine Geosciences: Processes, Hazards, and Resources Chairs: Marta Ribó, Auckland University of Technology; Sally Watson, National Institute of Water & Atmospheric Research	
15.00 – 15.15	Crustal Structure and Plate Interface Geometry along the Hikurangi Subduction Zone Dan Bassett, Earth Sciences NZ		Exploring Science Identity and Sense of Place through Extra-Curricular Educational Activities in Favelas in Rio de Janeiro, Brazil Lais Camargo Novaes, University of Canterbury*	M8.8 Kamchatka tsunami response ushers in the next generation of Time- Dependent Tsunami Early Warning (TiDeTEW) Bill Fry, Earth Sciences NZ	
15.15 – 15.30	Cree in the Marg	nicity within the ping and Locked Zones e Southern Hikurangi pin tha Savage, Victoria ersity of Wellington	Strengthening Science Identity and Interdisciplinary STEM Engagement: The Scientists in Schools Initiative at the University of Canterbury Amilea Sork, University of Canterbury	Low felt intensity of earthquakes in the footwall of the Vanuatu subduction zone, New Caledonia, South Pacific Shao-Jinn Chin, Victoria University of Wellington	
15.30 – 15.45	- South Island Seismology at the Speed of Light Experiment (SISSLE) — Characterizing the Alpine Fault at Haast, New Zealand Meghan Miller, Australian National University		Whakarūamoko – Active Earth: A geoscience journey in community learning Michele D'Ath-Woodd, Seismomentum Limited	Breaking the shallow-water speed limit – a large-scale experimental interrogation of tsunamigenic PDCs Gert Lube, Massey University	
15.45 – Synchronous and asynchronous ambient seismic noise tomography of the South Island, New Zealand, using a novel broadband array along the Alpine Fault Jack-Andrew Smith, University of Edinburgh*		chronous ambient nic noise tomography e South Island, New and, using a novel dband array along the te Fault -Andrew Smith,	EarthFest – Festival of Earth Science – What is it? What's the goal? What's next? Jenny Stein, Geoscience Society of New Zealand	Discussion and Q&A	
16.00 – 17	.30	Poster Session/ Aftern Drinks available to purch		Level 1, Atrium	
19.00 – 21	.00	Tuesday Casual Meet-	ир	Old Government House	

^{*} Student Presenter

Conference Programme

08.00 - 18	. 00	Registration Desk Open		Level 0, Exhib	sition Forer
09.00 - 09		<u> </u>	ıroa, University of Auckland	Level 0, Exnit	098 Lecture Theatre
09.25 - 09	0.30	Move rooms			11100110
	09	8 Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 F	
09.30 – 10.00	la pr ev Ch Sc	A Our changing ndscapes: Surface ocess dynamics, rolution, and hazards nairs: Sam McColl, GNS ience; Jon Tunnicliffe, niversity of Auckland	4B Ka mua ka muri: mātauranga māori and its application in the geosciences Chairs: Dan Hikuroa, University of Auckland; Kate Mauriohooho, Massey University; Sylvia Tapuke, University of Auckland	4C Distributed Volcanism: Processes, Products, and Hazards Chairs: Kate Mauriohooho, Massey University; Simon Barker, Victoria University of Wellington; Jan Lindsay, University of Auckland	
09.30 – 09.45	Slo No of Ac D a	nematic Evolution of ow-Moving Landslides in orthern California: Impacts Precipitation and Seismic ctivity (2021-2024) anielle Lindsay, UC erkeley*	KEYNOTE: Ka hangaia ngā mātauranga hou Kate Mauriohooho, Massey University	New volcano hazard research supporting emergency planning in Auckland: Seventeen years of DEVORA Graham Leonard, Earth Sciences NZ	
09.45 – 10.00	th pr	ndslide Dams around e World: A new book to ompt research ean Jackson, Earth iences NZ	Integrating Matauranga Māori and Geoscience: Exploring Māori Placenames as Indicators of Volcanic Risk in Auckland's Landscape Sylvia Tapuke, University of Auckland	Shattered Records: Fuel- Coolant-Interaction amplified ash fracturing in the 2022 Hunga eruption Rachael Baxter, University of Otago*	
10.00 – 10	.30	Morning Tea		Level 0, Exhib	oition Foyer
	09	8 Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 I	Room
10.30 – 12.00	la pr ev Ch Sc Ur	A Our changing Indscapes: Surface Indscapes: Surface Indscapes: Surface Indscapes: Surface Indscapes: Surface Indscapes: Surface Indscapes: Surfaces Indscapes: Surfaces Indscapes: Indscapes Indsc	5B Ka mua ka muri: mātauranga māori and its application in the geosciences Chairs: Dan Hikuroa, University of Auckland; Kate Mauriohooho, Massey University; Sylvia Tapuke, University of Auckland	the Energy 1 Chairs: Andre University of 1	Geoscience for ransition

^{*} Student Presenter

Conference Programme (Wednesday continued)

10.30 – 10.45	Evaluating the effect of the 1942 Wairarapa earthquake sequence on landslides using aerial imagery Danni Ellen Gubb, University of Canterbury*	Tāmaki herenga waka, Tāmaki herenga tangata, Tāmaki makaurau – what stories sit behind names? Robbie Paora, Waipapa Taumata Rau-university of Auckland	KEYNOTE: Geoenergy at the Core: Geoscience Driving the Global Energy Transition Alan Bischoff, University of Turku
10.45 – 11.00	Geophysical Characterisation of Landsides across Aotearoa Richard Kellett, Earth Sciences NZ	Working with Mana Whenua: Field protocols for research in the Auckland Volcanic Field. Kelvin Tapuke, Devora	Applications and Future Potential of Borehole Image Logs in New Zealand's Subsurface Characterisation Angela Griffin, Earth Sciences NZ
11.00 – 11.15	High-resolution pseudo-3D seismic reflection imaging of the sedimentary infill of Lake Whakatipu. Georgina Dempster, University of Otago*	Collaborative learnings from the Volcanic Lakes of Ahi Tupua AJ Marshall, Te Herenga Waka - Victoria University of Wellington*	Geoscience in the pursuit of energy resources – reflections Mac Beggs, Retired
11.15 – 11.30	Fifty Years of Shore Platform Erosion Monitoring at Kaikōura Peninsula, South Island, Aotearoa-New Zealand Wayne Stephenson, University of Otago	Heed the taniwha Dan Hikuroa, Waipapa Taumata Rau-university of Auckland	H ₂ –Brine–Rock Interactions: Laboratory Insights for Geostorage at Ahuroa Ludmila Adam, University of Auckland
11.30 – 11.45	A Legacy of Submarine Slope Failure in Seismic Reflection Data Along the Active Hikurangi Margin, Aotearoa New Zealand Sally Watson, Earth Sciences NZ/UOA	Te Mauri Ihoiho: A culturally based framework for climate change resilience Destiny Wharewera, Ao Hurihuri Iwi Collective	Sustainable extractive metallurgy for the refining of critical minerals in Aotearoa Morgan Lowther, Paihau— Robinson Research Institute, Victoria University of Wellington
11.45 – 12.00	Assessing the tsunami hazard from sub-aerial landslides on Whakaari / White Island William Power, Earth Sciences NZ	Ngā Ara Pungapunga (Pumice Pathways): Partnering with tangata whenua to develop a new low-carbon pumice economic sector for Aotearoa- NZ Anke Zernack, Massey University	Uncovering New Low Temperature Geothermal Occurrences in Auckland and North Waikato as Part of Decarbonising Covered Crops with Geoheat Paul Viskovic, Earth Science NZ
12.00 – 13	.25 Lunch & SIG Meetings		Level 0, Exhibition Foyer

^{*} Student Presenter

Conference Programme (Wednesday continued)

12.30 – 13.25	Case Room 1 GeOID SIG Meet & Greet	Geo	Room 2 Discovery / ANZIC Meeting	Case Room . GeoNet Pro Update	-	Case Room 4 LAVA NZ (Volcanology) SIG Meeting
	098 Lecture Theatre		073 /OGGB4 Room		092/OGG	B3 Room
13.30 – 15.30	6A Active Tectonics and Earthquakes of Aotean New Zealand Chairs: James Muirhead, University of Auckland; Andy Nicol, University of Canterbury; Jade Humph University of Canterbury	oa	6B The Aotearoa N Zealand geoscien landscape: manageomputing and dissemination sol Chairs: Elisabetta D GNS Science; Jonath GNS Science; Mark H GNS Science	ce data gement, utions 'Anastasio, nan Hanson,	Processe Hazards Chairs: Ka Massey Ui Barker, Vid of Welling	buted Volcanism: s, Products, and ate Mauriohooho, niversity; Simon ctoria University aton; Jan Lindsay, of Auckland
13.30 – 13.45	Paleoseismology of the Hope Fault Conway Section and Evidence fo Along-System Earthqua Clustering Jade Humphrey, University of Canterbu - Te Whare Wānanga O Waitaha	ke	KEYNOTE: Data is Governance of Māc Crown Research In: Linley Jesson, Bio Sciences Institute	ori data in stitutes economy	Magnetic to base su the Auckl Implication	on of Anisotropy Susceptibility (AMS) urge deposits of and Volcanic Field: ons for depositional and runout distance u Teferi, University and*
13.45 – 14.00	Laboratory and thermo- mechanical modelling constraints on the seism aseismic transition dept Wellington region, New Zealand Carolyn Boulton, Te Herenga Waka Victoria University of Wellingto	nic- h,			and Fluxe Volcanic I Zealand	: Volcanic Emissions es in the Auckland Field, Aotearoa New nid, University of d*
14.00 – 14.15	Laboratory constraints on greywacke fault zone elasticity throughout the seismic cycle Lars Hansen, Te Hereng Waka Victoria Universiof Wellington	e ga	Availing geoscienc national and intern data standards Mark Rattenbury, Sciences NZ	ational	flows in the	g fire hazard from lava he Auckland Volcanic err, University of d*
14.15 – 14.30	Toward a New Zealand Community Velocity Mo Hannu Seebeck, Earth Sciences NZ	del	The NZP&M Geoda Catalogue. Three y Growth, Pipelines, Learnt and the Futu Giovanni Pradel, I	ears on: Lessons ure	at lava flo from the eruption,	building damage ow margins: Insights 2021 Tajogaite La Palma rippner, University to

^{*} Student Presenter

Conference Programme (Wednesday continued)

14.30 - 14.45	Local earthquake tomography of the Wairakei-Tauhara region Ryota Shibuya, Te Herenga Waka - Victoria University of Wellington*		KEYNOTE: Unlocking New Zealand's Landscape: National-Scale Access to Airborne LiDAR Jack Williams, Toitū Te Whenua Land Information NZ	Geochronology and geochemical evolution of magma systems in the Taupō-Maroa area between two supereruptions: Whakamaru and Ōruanui Kate Mauriohooho, Massey University
14.45 – 15.00	Paero dense	hysical imaging of the a Fault: Insights from a e nodal seismic array k Keats, Earth Science	Do multi-GNSS solutions impact the results of the final product? Moving from a GPS only, to multi-GNSS solution. Lars Hansen, Land Information NZ	Timing and eruptive characteristics of the ~349 ka Whakamaru supereruption sequence constrained by detailed analysis of tephra sites around New Zealand Anna Miller, Victoria University of Wellington*
15.00 – 16.	30	Poster Session/ After Drinks available to pure		Level 1, Atrium
16.30 – 17.	16.30 – 17.30 GSNZ AGM			092 /OGGB3 Room
18.30	.30 Dinner Transport: Buses Depart from Grafton Road		ses Depart from outside the Sir O	wen G Glenn Building on
19.00 – late 'Rock the Boat' Dinner & Awards (rsvp required) 1 drink voucher provided, additional ca			NZ Royal Yacht Squadron	

Conference Programme

08.00 - 18.00 09.00 - 09.25		Registration Desk Open		Level 0, Exhibition Foyer
		Plenary Talk - Sian Fran <i>Hydrogeology as a driver</i>	ce , BECA r of better project outcomes	098 Lecture Theatre
09.25 – 0	9.30	Move rooms		
	098 L	ecture Theatre	073 /OGGB4 Room	092 /OGGB3 Room
09.30 – 10.30	and Chair	Inderstanding tectonic magmatic processes r: Jennifer Eccles, ersity of Auckland	7B The Aotearoa New Zealand geoscience data landscape: management, computing and dissemination solutions Chairs: Elisabetta D'Anastasio, GNS Science; Jonathan Hanson, GNS Science; Mark Rattenbury, GNS Science	7C Tāmaki Makaurau Auckland – a Geoscience Laboratory Chairs: Kasper Van Wijk, University of Auckland; James Muirhead, University of Auckland
09.30 – 09.45			Evaluating the Reliability of Post-Volcanic Eruption Building Damage Data Collection Methods Niamh Stratton, University of Canterbury*	Probing the depths of Auckland's Volcanic Field: An integrated geophysical investigation into the intraplat volcanism of Tāmaki Makaurau Kasper Van Wijk, University of Auckland
09.45 – 10.00	Seasonal to Multiannual Creep Rate Changes Along the Hayward, Rodgers Creek, and Maacama Faults, California Danielle Lindsay, UC Berkeley*		An Inside Look at the GeoNet Products and Services Architecture Joshua Groom, Earth Sciences NZ	Probing the deep roots of the Auckland Volcanic Field Geoffrey Abers, Cornell University
10.00 – 10.15	Can data from IODP Expedition 405 to the Japan Trench explain a correlation between low flexural rigidity and slip during the 2011 Mw9.1 Töhoku-oki earthquake? Ron Hackney, Australia New Zealand International Scientific Drilling Consortium		GeoNet Seismic Benchmark Dataset for Al-Driven Seismology in New Zealand Pasan Herath, Earth Sciences NZ	Origin of the Auckland Volcanic Field: Insights from Finite-Frequency Body-Wave Tomography Junguo Lin, Southern University of Science and Technology*
10.15 – 10.30	reveal crust Sout front for p the s	vaveform inversion als high-resolution al structure within the hern Hikurangi Margin al wedge: Implications hysical conditions along hallow megathrust ok Tozer, Earth nces NZ	Agentic Workflows: Shaping the Future of Scientific Software with Al Florent Aden-antoniow, Earth Sciences NZ	Mantle deformation in northwestern North Island, New Zealand Jade Robinson, Victoria University of Wellington Te Herenga Waka*

^{*} Student Presenter

Conference Programme (Thursday continued)

10.30 – 1	1.00 Morning Tea		Level 0, Exhibition Foyer
	098 Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 Room
11.00 – 12.30	8A Understanding tectonic and magmatic processes Chair: Jennifer Eccles, University of Auckland	8B(i) Deciphering the environmental past, present and future of Aotearoa Chairs: Paul Augustinus, University of Auckland; Barry O'Connor, University of Auckland; Laura McDonald, University of Auckland	8C(i) Tāmaki Makaurau Auckland – a Geoscience Laboratory Chairs: Kasper Van Wijk, University of Auckland; James Muirhead, University of Auckland
11.00 – 11.15	Does pre-ascent magma storage influence eruption style? Phil Shane, University of Auckland	Holocene landscape evolution and phases of accelerated sedimentation and dune building in the lower Wairarapa Valley, North Island, New Zealand. Sam McColl, Geoscience Society of New Zealand	Imaging the Auckland Volcanic Field using Ambient Noise Tomography Hugo Chevallier, University of Auckland*
11.15 – 11.30	Beyond the façade of monotony: Geochemical signatures of a heterogeneous magmatic mush reservoir Marlena Prentice, University of Waikato	Vegetation change over the Mid-Pleistocene Transition in Aotearoa-New Zealand: insights from a Hikurangi Subduction Margin record Laura McDonald, The University of Auckland*	Imaging the Auckland Volcanic Field upper lithosphere with local body-wave tomography Meegan Soulsby, University of Auckland*
11.30 - 11.45	Thermo-Rheological Feedback in Dikes: Insights from Analogue Experiments and Numerical Modelling Javiera Ruz - Ginouves, University of Otago*	Miocene to Holocene paleogeography of the Auckland–Northland region Dominic Strogen, Earth Sciences NZ	The 1891 M~6.2 Port Waikato earthquake and other past seismicity in Auckland/ Northland, and geodetic measurements of strain rates Chris Rollins, Earth Sciences NZ
11.45 – 12.00	Tectonic and magmatic controls on multi-crater vent formation from 3D mapping of the Modgunn vent, offshore mid-Norway Luisa Rollwage, University of Canterbury*	8B(ii) Paleontology for the People Chairs: Chris Hollis, Victoria University of Wellington; Bruce Hayward, Geomarine Research Is New Zealand paleontology a dying field? Christopher Hollis, Victoria University of Wellington	A history of faulting in Tāmaki Makaurau-Auckland from the Miocene to Present Day James Muirhead, University of Auckland

^{*} Student Presenter

Conference Programme (Thursday continued)

12.00 – 12.15	offsets in the aftermath of the 232 CE Taupō eruption Madisen Snowden, Earth Sciences NZ The Volcano WakaLab at Teneikoula Volcano, Solomon Islands C Ian Schipper, Victoria		Nō hea tō whenua – Where is your land from? Christopher Hollis, Victoria University of Wellington	8C(ii) Geoscience and Societal Resilience Chair: Jennifer Eccles, University of Auckland
12.15 – 12.30			Bryozoan time travel to the tropical Lower Devonian Reefton Group Catherine Reid, University of Canterbury	KEYNOTE: Science Advisory Panels: Enhancing Decision- Making in New Zealand's Emergency Management System Ashleigh Fromont, National Emergency Management Agency
12.30 – 12.45	stret Jani	nation of Pele's hair by ching of bubbly magma na Gillies, University anterbury	Effective and ineffective strategies in science-society interactions for palaeontology: experience of last 15 years in Russia and its potential application to New Zealand Alexey Ippolitov, Victoria University of Wellington*	Preserving Historical Seismograms from Taupō Unrest In 1964–65 And 1983–1986 Paul Viskovic, Earth Science NZ
12.45 – 1	3.45	Lunch		
	0981	Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 Room
13.45 – 14.45	with radia Chai	ieoscience advances synchrotron ation r: Michael Rowe, ersity of Auckland	9B Volcanic Lakes: Dynamics, Hazards, and Community Resilience Chairs: Agnes Mazot, GNS Science; AJ Marshall, Victoria University of Wellington; Cynthia Werner, US Geological Survey Contractor; Bruce Christenson	9C Geoscience and Societal Resilience Chairs: Jennifer Eccles, University of Auckland; Jennifer Andrews, Earth Science NZ; Victoria Miller, Earth Science NZ
13.45 – 14.00	Answ Que: And ANS	ninating Earth: How hrotron Light can ver Geoscience stions rew Langendam, TO Australian chrotron	Hydrothermal mineralisation prior to gas-driven eruptions: constraints on mineral seal formation via flow-through experiments Geoff Kilgour, Earth Sciences NZ	Modeling Seismic Sensor Network Capability with the Minimum Detectable Earthquake Magnitude Sam Taylor-Offord, Earth Sciences NZ
14.00 – 14.15	bear Sync later critic using recry redu Max	g the XAS and MEX nlines at the Australian throtron to analyse ite ores undergoing tal metal extraction g Fe(II) meditated stallisation and ctive dissolution. imilian Mann, Monash versity	Investigating Hydrothermal Sealing Mechanisms at Mt. Ruapehu Using So2 Emission Rates Agnes Mazot, Earth Sciences NZ	Multiple approaches toward earthquake shaking prediction: application to a Wellington building Caroline Holden, SeismoCity Ltd

^{*} Student Presenter

Conference Programme (Thursday continued)

14.15 – 14.30	trace of sili- intera throu Galliu Mich	tigating a potential element biosignature ca-microbe actions in hot springs igh synchrotron-based im XANES ael Rowe, University ickland	KEYNOTE: "I'm constantly aware that I live next to a super-volcano": Shifts in risk perception across a year of caldera unrest and storm events in Taupō Mary Anne Clive, Earth Sciences NZ	Space Weather Vulnerabilities in the North Island, Aotearoa New Zealand Kristin Pratscher, Earth Sciences NZ
14.30 – 14.45			Volcanic Lakes in Te Arawa: An Iwi Perspective Sarah Wharekura, Te Arawa Lakes Trust	The Occurrence and Morphology of Naturally Occurring Respirable Mordenite Mineral Fibres in New Zealand Ayrton Hamilton, The University of Auckland
14.45 – 1	5.15	Closing Ceremony		098 Lecture Theatre



Field Trips

Friday 28 November 2025		
08.00 - 17.00	Epithermal mineral deposits of the Coromandel Volcanic Zone Leader: Ayrton Hamilton (University of Auckland)	
07.30 - 17.30	Fossil highlights of the Port Waikato Region Leader: Nathan Collins (University of Auckland)	
08.00 – 13.00	Geological Tour of Motukorea/Brown's Island by Sea Kayak Leader: Michael Rowe (University of Auckland)	
08.30 - 16.00	Rangitoto Revealed!: Insights into Volcanic Hazard and Risk in the Auckland Volcanic Field Leaders: Elaine Smid, Annahlise Hall, Meegan Soulsby (University of Auckland)	



Posters TUESDAY 25 NOVEMBER

Session: Active Tectonics and Earthquakes of Aotearoa New Zealand

P1.01	Danielle Best*	Insights into the source faults of the Canterbury Earthquake Sequence from LiDAR differencing and elastic dislocation models
P1.02	Solen Chanony*	Radiated seismic energy estimation tool for Aotearoa and the south-west Pacific
P1.03	Luke Chowdhury*	A new hope: Enhancing paleoseismic records of the Hope Fault using fault-contact lakes.
P1.04	Cédric De Meyer*	The 2025 seismicity along the Puysegur Subduction Zone: What it can tell us about subduction processes and interplay with crustal faults
P1.05	Alexander Gold*	Histories of faulting and the twin threats of seismic and volcanic hazards around Taupō Volcano
P1.06	Wiebke Heise	Magnetotelluric Measurements in the Marlborough Fault Zone
P1.07	Caroline Holden	Rupture models of past large Alpine fault (New Zealand) earthquakes to inform imminent seismic hazard.
P1.08	Carmen Juarez Garfias*	Long Period Ground Motion Simulations of the Alpine Fault in the North Island using Ambient Seismic Noise Towards Earthquake Early Warning
P1.09	Wuyu Liao	SEISYNC: An Al-driven Modular Seismic Monitoring System for Synchronous Earthquake Early Warning and Post-Event Cataloging
P1.10	Yiming Ma	Detection of Short-Term Slow Slip Events in New Zealand Using Decade-Long GNSS Time Series
P1.11	Carlos Montalvo Lara*	Illuminating the deep structure of the Marlborough Fault System using microseismicity
P1.13	Matt Parker*	Can ridge rents in Arthur's Pass National Park record past large earthquakes?
P1.14	Mojtaba Rajabi	Mapping neotectonic stress pattern of New Zealand
P1.15	Jerome Salichon	GeoNet Earthquake Monitoring Evolution 2025: Modernizing Event Detection and Catalogue Workflows
P1.16	Kiran Kumar Thingbaijam	Aotearoa New Zealand Earthquake Rupture Models Database
P1.17	John Townend Seismological Analysis of Contemporary and Future Alpine Fault Seismicity Uthe Southern Alps Long Skinny Array (SALSA)	
P1.18	Alexandra Travers*	Spatial–Temporal Rupture Patterns of Reverse Faults: A Case Study of the Dunstan Fault, Otago, New Zealand
P1.19	Codee-Leigh Williams*	Long-Duration Enhanced Earthquake Analysis to Illuminate Faulting and Earthquake Interactions Across the Cook Strait.

Posters TUESDAY 25 NOVEMBER

Session: Distributed Volcanism: Processes, Products, and Hazards

Simon Barker	Recent explosive eruptive history of Tūhua volcano, Bay of Plenty: Insights from marine cores
Rachael Baxter*	The role of magma-flux on eruptive behaviour during the formation of the monogenetic Ubehebe volcanic centre, Death Valley, California.
Paul Bobin*	Inside pyroclastic density currents – first results of high-resolution measurements of their internal structure
Brenda Ferguson*	Origins and timescales of tephra emplacement generating the Mangatawai Tephra, Tongariro National Park
Joseph Fleming*	Spatial Variations in and Sedimentological Characteristics of the Taupō Ignimbrite
Samuel Clouston*	Numeric modelling insights into the cause of shallow tremor at Ruapehu
Oliver Emerson McLeod	Sub-surface geological mapping of the eastern Alexandra Volcanic Group, Waikato
Tomomi Okada	Earthquake swarm in 2025 and seismic velocity structure in the Abu monogenic volcanic group, southwestern Japan
Javiera Ruz - Ginouves*	Locked in Stone: Magma Flow Directions and Country Rock Heating Around the Jagged Rocks Dikes, Hopi Buttes Volcanic Field
Melody Whitehead	Magma Depletion: An alternative hypothesis for vent distribution in volcanic fields
	Rachael Baxter* Paul Bobin* Brenda Ferguson* Joseph Fleming* Samuel Clouston* Oliver Emerson McLeod Tomomi Okada Javiera Ruz - Ginouves*

Session: Ka mua ka muri: mātauranga māori and its application in the geosciences

P1.30	Melody Whitehead	Should statistical tools be used to harness the forecasting potential of environmental tohu at Ruapehu, and the Central Volcanic Plateau?
P1.31	Iris Ronald*	Integrating remote sensing with iwi-guided monitoring of Mount Ruapehu
P1.32	Natalia Seliutina*	How tough is pounamu? Results of fracture-toughness measurements on New Zealand's nephrite jade

Posters TUESDAY 25 NOVEMBER

Session: Earth, Energy, and Innovation: Geoscience for the Energy Transition

P1.33	Curt Knott*	CO2 capture and storage in Aotearoa, New Zealand: Are geothermal reservoirs rocks capable of carbon mineralization?
P1.34	Ted Spinks*	Facies control on the distribution of organics and reactive minerals in potential hydrogen geostorage sedimentary reservoirs
P1.35	Romain Sylvain	Revisiting the Tectono-Sedimentary Evolution of the Tarata Thrust Zone (Taranaki Basin, Aotearoa New Zealand): Implications for Future H_2 and CO_2 Geostorage
P1.36	Emmanuel Turinimana*	Predictability of soil CO2 degassing from soil temperature measurements in geothermal settings

Session: Exploring the Frontiers of Marine Geosciences: Processes, Hazards, and Resources

P1.37	Charles Cox*	Coastal sediment dynamics and coastal evolution in a changing climate
P1.38	Sam Davidson	An overview of marine imaging/sampling capabilities for geoscientific research
P1.39	Constanza Flores*	Integrated pedestrian-car agent-based models for tsunami evacuation
P1.40	Catherine Ginnane	Novel radiocarbon measurements of Patea / Doubtful Sound and Tamatea / Dusky Sound particulate organic carbon reveal knowledge gaps in lateral carbon transport and sequestration
P1.41	Archie Hann*	Source to Sink Sediment Analysis in the Upper Whakaraupō Lyttelton Harbour
P1.42	Marta Ribó	Gravity flow processes during submarine canyon flushing events
P1.43	Marta Ribó	Sediment resuspension during anchoring operations
P1.44	Hannah St. Louis*	Post-eruptive Ocean Response at Hunga Volcano, Tonga
P1.45	Sally Watson	Comparing the impacts of ship anchoring on sediment structure and composition in Wellington Harbour/Te Whanganui ā Tara

Session: General Geoscience

P1.46	Hoa Nguyen Natalia Abrego	Environmental Chemistry Laboratory
P1.47	Brendan Hall	Costal & Hydrology Laboratory
P1.48	David Wackrow	ENV Particle Analysis Laboratory
P1.49	David Wackrow	Sedimentology lab

Posters TUESDAY 25 NOVEMBER

Session: Geoscience communication, education and outreach, going on around the motu and beyond

P1.50	Michele D'Ath-Woodd	Rockology Psychology, Taranaki Regional EarthFest: Budget of none.
P1.51	Rachel Lawson	Whose Role is it Anyway? A Survey on Public Perceptions of Emergency Management during Geohazards Response
P1.52	Keeley Grantham*	Te Tukohu Ngāwha – Reflecting on five years of scientific growth steeped in Mātauranga Māori

Session: Our changing landscapes: Surface process dynamics, evolution, and hazards

P1.53	James Ardo*	More than water: Large-scale experimental facility for debris flow research
P1.54	Vincent Gil	As clear as mud: PIV Measurements of velocity profiles in small-scale debris flow experiments.
P1.55	Craig Miller	The threat of volcanic tsunami from near shore volcanoes in the Bay of Plenty, New Zealand
P1.56	Arthur Wickham*	Under Pressure: Investigating Pore Pressure Dynamics in Sheared Natural Sediment Mixtures

Session: Volcanic processes shaping Aotearoa's landscape

P1.57	Cam Asher	Say "Cheese!": An Upgrade to the GeoNet Volcano and Landslide Webcam Monitoring Capabilities
P1.58	Nathan Collins*	Controls on Travertine and Tufa Deposition at Mt Taranaki, New Zealand
P1.59	Taylor Dackers*	Genetically and temporally grouping Holocene lavas and tephras at Mt. Ruapehu
P1.60	Graham Leonard	The geology of the Taupō Volcanic Zone at 1:130 000 scale
P1.61	Leighton Watson	Using seismic signals to track moving flows: a case study of the 2007 Ruapehu lahar
P1.62	Cindy Werner	Hydrothermal signatures in springs and gases at Taranaki Volcano – Opportunities for geochemical monitoring

PostersWEDNESDAY 26 NOVEMBER

Session: Deciphering the environmental past, present and future of Aotearoa and Beyond

P2.01	Paul Augustinus	Auckland Maar Lakes as Recorders of Late Quaternary Paleoclimate and Tectonic Events
P2.02	Kari Bassett	Fitted-clast textures in lacustrine fan delta mouth bar settings in the Cretaceous Paparoa Formation, Greymouth Basin
P2.03	Courtney Durham*	Characterising Paleosols Within Tephra Sequences in the Taupō Volcanic Zone
P2.04	Gavin Holden*	Synchronous antiphase rainfall patterns in the tropical South Pacific during the Last Glacial Period: Evidence from the speleothem paleoclimate record.
P2.05	Andrew La Croix	Sedimentary Evolution of the Rangitāiki Plains in Aotearoa New Zealand: Implications for Coastal Processes and Management
P2.06	Anna Miller*	Eruptive characteristics, timing, and environmental setting of the ~1 Ma Kidnappers supereruption constrained by high-resolution tephrochronology and palynology
P2.07	Courtney Simmiss*	Reconstructing Holocene Environmental Change and Geological Development at Sandy Point, Avon-Heathcote Estuary, Christchurch, New Zealand.
P2.08	Jemma Te Whaiti*	How Benthic Foraminifera Relate to Tidal Elevation changes in Whakaraupō (Lyttelton Harbour)

Session: General Geoscience

P2.09	Andres Arcila	Earth Sciences Processing Laboratory
P2.10	Jayden Li	Scanning Electron Microscopy Mischaracterization
P2.11	Harpreet Singh	XRF Fluorescence Spectroscopy
P2.12	Glenn Thompson	Electro Probe Microanalyser

Session: Geoscience advances with synchrotron radiation

P2.13	Shannen Mills	Palisade bubbles – Heterogeneous nucleation or something else?

Posters WEDNESDAY 26 NOVEMBER

Session: Geoscience and Societal Resilience

P2.14	Kasuni Erandika Adikari Adikari Appuhamilage*	Advancing Earthquake Resilience: A Multi-Modal Approach to Analysing Human Behaviour
P2.15	Jen Andrews	Improving the Performance of the FinDer Algorithm for Rapid Characterisation of Offshore New Zealand Ruptures
P2.16	Thanuri Eranthi	Improving Ground Motion Prediction in New Zealand Earthquakes with Bayesian Hierarchical Modelling
P2.17	Richard Melchert	Enhancing GeoNet Earthquake Solution Quality with Automated Tools
P2.18	Victoria Miller	Promoting resilience through next- and end-user engagement on volcanic ash forecast products
P2.19	Sajan Neupane*	Earthquakes and Citizen Science: Understanding human behaviour through GeoNet Felt Detailed Reports
P2.20	Danuka Ravishan*	Toward Lightweight On-site Earthquake Early Warning: Evaluating the Mamba State-Space Model
P2.21	Mohammadali Rezaei*	A Geostatistically Enhanced Random Forest Model for High-Accuracy Seismic Property Estimation
P2.22	Kianoush Rostami*	Understanding the Human Side of Earthquake Early Warning: Exploring Key Response Factors
P2.23	Emeline Wavelet*	Designing local Time-Dependent Forecast for tsunami: feedback from end users
P2.24	Kenny Graham	Updates on medium-term earthquake forecasting in New Zealand and beyond

Session: The Aotearoa New Zealand geoscience data landscape: management, computing and dissemination solutions

P2.25	Kenny Graham	Toward a FAIR framework for earthquake catalogues in Aotearoa, New Zealand
P2.26	Sam Davidson	Seabed 2030 and Advancing Ocean Mapping: Project Updates and Goals for 2026
P2.27	Thomas Benson	Improving GeoNet Data Useability: Current and Future Enhancements Through Collaboration with International Partners
P2.28	Elisabetta D'Anastasio	The Journey of GeoNet Data
P2.29	Elisabetta D'Anastasio	Open Data is not enough: questions on Māori Data Governance in the context of national scale research infrastructure
P2.30	Pasan Herath	GeoNet's Geohazard Monitoring Data in the Cloud: How to Find and Use Them?

Posters WEDNESDAY 26 NOVEMBER

Session: Paleontology for the People

P2.31	· '	Chemical time capsules: How we can use molecular fossils as markers
		of environmental change

Session: Tāmaki Makaurau Auckland - a Geoscience Laboratory

P2.32	Yazi Ali*	Characterising Cementation as a Control on Rock Strength in the East Coast Bays Formation, Auckland
P2.33	Jirapat Charoensawan*	Auckland Rock as Mars Analogue: Effect of Temperature and Humidity on Seismic Velocities of Sandstone and Basalt

Session: Volcanic Lakes: Dynamics, Hazards, and Community Resilience

P2.34	Peter Otway	Monitoring Ruapehu the old-fashioned way
P2.35	Sol Marconi*	Do visual observations reflect volcanic gas emissions at Whakaari/White Island?
P2.36	AJ Marshall*	Volcanic Lakes in Te Arawa: Volcanic - Environmental Monitoring

Posters WEDNESDAY 26 NOVEMBER

Session: Understanding tectonic and magmatic processes

P2.37	Zoe Armstrong*	The role of coal-magma interaction in the temporal development of magmatic plumbing systems: Insights from the Ferrar Large Igneous Province
P2.38	Samantha Nicholson*	Observations of faulting, folding and fluid flow in Rakaia Terrane greywacke, Princess Bay, Wellington, New Zealand
P2.39	Shao-jinn Chin	Shear wave velocity image of an ophiolite nappe in New Caledonia and its implications for Eocene subduction initiation beneath Zealandia
P2.40	Shixian Dong*	Imaging Upper Mantle Structure beneath Earth's Hidden Continent of Northern Zealandia with Ambient Noise Tomography
P2.41	Donna Eberhart- Phillips	A model of Cretaceous subduction cessation and intraplate volcanism, based on South Zealandia 3D crustal structure
P2.42	Ryotaro Fujimura*	S-wave splitting analysis with Frequency Dependence in Northeastern Japan
P2.43	Katharine Gilchrist*	Dynamics of Heat Transfer Within Large Igneous Province Sill Complexes
P2.44	Janina Gillies	Evolution of highly vesicular basaltic pyroclasts during fountaining
P2.45	Annahlise Hall*	A New Subaerial Record of Explosive Volcanism and Associated Tsunami Deposits on Tongatapu Island, Tonga
P2.46	Aimee Harsant*	Co-erupted Plutonic Enclaves in Dacitic Magma at Belfond Volcano, Saint Lucia, Lesser Antilles Arc, from an Amphibole and Plagioclase Perspective
P2.47	Finnigan Illsley- Kemp	Attenuation imaging of the Taupō Volcanic Zone
P2.48	Chengxin Jiang	Probing the Wairakei-Tauhara Geothermal System, Taupō Volcanic Zone, with a dense nodal seismic array
P2.49	Sophy Kipkwony*	Seismotectonic Source Zones and Seismic Hazard in the Kenya Rift
P2.50	El Mestel	A new dense nodal seismic network at Ōkataina volcano, Aotearoa New Zealand
P2.51	Mark Rattenbury	Pluton Map characterisation of Aotearoa New Zealand's intrusive rocks
P2.52	Yirong Xu*	Quantitative mechanisms of groundwater level fluctuations under harmonic disturbance: Stress-strain evidence in a confined sand layer
P2.53	Shengfeng Zhang	Identification of the Precursory Scale Increase in the Earthquake Catalog of CSEP-China Testing Center

