



GSNZ 2025 Conference Provisional Programme

Programme as of 31.10.25. The committee reserves the right to update the programme as required.

Monday 24 November 2025

08.45 – 16.30	Field Trip: The Auckland Volcanic Field through a Different Lens Field Trip Leaders: Jan Lindsay, Sylvia Tapuke (University of Auckland) CLICK HERE FOR DETAILS
13.00 – 17.00	Pre-conference Workshop: Shaping the Future of Aotearoa New Zealand's Involvement in Global Scientific Drilling Programs (GeoDiscoveryNZ & ANZIC) Leaders: Phaedra Upton, Joshu Mountjoy (Earth Sciences New Zealand) and Ron Hackney (ANZIC-ANU) CLICK HERE FOR DETAILS
tbc	Registration Desk Open
17.30 – 19.00	Icebreaker Reception (<i>rsvp required</i>)
19.00 – 21.00	Early-Career Catch-Up (<i>rsvp required</i>)

Tuesday 25 November 2025

08.00 – 17.30	Registration Desk Open		
08.45 – 09.30	Opening Ceremony		
09.30 – 10.00	Plenary Talk - Simon Upton, Parliamentary Commissioner for the Environment		
10.00 – 10.30	Morning Tea		
	098 Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 Room
10.30 – 12.00	1A Active Tectonics and Earthquakes of Aotearoa New Zealand <i>Chairs: James Muirhead, University of Auckland; Andy Nicol, University of Canterbury; Jade Humphrey, University of Canterbury</i>	1B Geoscience communication, education and outreach, going on around the motu and beyond <i>Chairs: Jenny Stein, GSNZ; Ilmars Gravis, Geoconservation.org</i>	1C Exploring the Frontiers of Marine Geosciences: Processes, Hazards, and Resources <i>Chairs: Marta Ribó, Auckland University of Technology; Sally Watson, National Institute of Water & Atmospheric Research</i>
10.30 – 10.45	Observations from 20 Years of Seismic Data in Aotearoa New Zealand Codee-Leigh Williams, Victoria University of Wellington	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 disturbance impacts on organic carbon storage in New Zealand's shelf sediments Ines Bartl, University of Auckland
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 Annahise 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, Earth Sciences NZ
11.30 - 11.45	Insights on the Kinematic Rupture Properties of the 2016 Mw 7.9 Kaikōura 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
12.00 – 13.30 Lunch & SIG Meetings			
12.30 – 13.30	<i>Case Room 1</i> Paleontology SIG Meeting	<i>Case Room 2</i> Early Career Researcher (ECR) SIG Meeting	<i>Case Room 4</i> Progressing the Seismology SIG Meeting
	<i>098 Lecture Theatre</i>	<i>073 /OGGB4 Room</i>	<i>092 /OGGB3 Room</i>
13.30 – 14.45	2A Active Tectonics and Earthquakes of Aotearoa New Zealand <i>Chairs: James Muirhead, University of Auckland; Andy Nicol, University of Canterbury; Jade Humphrey, University of Canterbury</i>	2B Geoscience communication, education and outreach, going on around the motu and beyond <i>Chairs: Jenny Stein, GSNZ; Ilmars Gravis, Geoconservation.org</i>	2C Volcanic processes shaping Aotearoa's landscape <i>Chairs: Gerd Siefeld, University of Auckland</i>
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	Creative classroom interventions and their impacts on geoscience identity Emily Pasek, Michigan State University	Magmatic evolution of Whakaari volcano: Insights from marine cores Kieran JM Prowse, Victoria University of Wellington
14.30 – 14.45	Geometric Deep Learning for Nowcasting and Automated Characterization of Slow Slip at the Hikurangi Subduction Zone	Strategic Discussion and Q&A	Speleothems as Archives of Volcanic Eruptions: A High-Resolution Record from Mt Taranaki Nathan Collins, University of Auckland

	Florent Aden-antoniow, Earth Sciences NZ		
14.45 – 15.00		(Stretch/Toilet & Movement Break)	
	098 Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 Room
15.00 – 16.00	3A Active Tectonics and Earthquakes of Aotearoa New Zealand <i>Chairs: James Muirhead, University of Auckland; Andy Nicol, University of Canterbury; Jade Humphrey, University of Canterbury</i>	3B Geoscience communication, education and outreach, going on around the motu and beyond <i>Chairs: Jenny Stein, GSNZ; Ilmars Gravis, Geoconservation.org</i>	3C Exploring the Frontiers of Marine Geosciences: Processes, Hazards, and Resources <i>Chairs: Marta Ribó, Auckland University of Technology; Sally Watson, National Institute of Water & Atmospheric Research</i>
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	Seismicity within the Creeping and Locked Zones in the Southern Hikurangi Margin Martha Savage, Victoria University 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, Seismomomentum Limited	Breaking the shallow-water speed limit – a large-scale experimental interrogation of tsunamigenic PDCs Gert Lube, Massey University
15.45 – 16.00	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	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/ Afternoon Tea	

Wednesday 26 November 2025

08.00 – 18.00		Registration Desk Open	
09.00 – 09.25		Plenary Talk - Daniel Hikuroa , University of Auckland <i>Being a Good Ancestor</i>	
09.25 – 09.30		Move rooms	
	098 Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 Room
09.30 – 10.00	4A Our changing landscapes: Surface process dynamics, evolution, and hazards <i>Chairs: Sam McColl, GNS Science; Jon Tunnicliffe, University of Auckland</i>	4B Ka mua ka muri: mātauranga māori and its application in the geosciences <i>Chairs: Dan Hikuroa, University of Auckland; Kate Mauriohooho, Massey University; Sylvia Tapuke, University of Auckland</i>	4C Distributed Volcanism: Processes, Products, and Hazards <i>Chairs: Kate Mauriohooho, Massey University; Simon Barker, Victoria University of Wellington; Jan Lindsay, University of Auckland</i>
09.30 – 09.45	Kinematic Evolution of Slow-Moving Landslides in Northern California: Impacts of Precipitation and Seismic Activity (2021-2024) Danielle Lindsay, UC Berkeley	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	Landslide Dams around the World: A new book to prompt research Dean Jackson, Earth Sciences 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				
	098 Lecture Theatre		073 /OGGB4 Room		092 /OGGB3 Room	
10.30 – 12.00	5A Our changing landscapes: Surface process dynamics, evolution, and hazards <i>Chairs: Sam McColl, GNS Science; Jon Tunncliffe, University of Auckland</i>		5B Ka mua ka muri: mātauranga māori and its application in the geosciences <i>Chairs: Dan Hikuroa, University of Auckland; Kate Mauriohoo, Massey University; Sylvia Tapuke, University of Auckland</i>		5C Earth, Energy, and Innovation: Geoscience for the Energy Transition <i>Chairs: Andrew La Croix, University of Waikato; Ludmila Adam, University of Auckland</i>	
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 Landslides 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 Andrea Wolter, Earth Sciences NZ		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				
12.30 – 13.25	Case Room 1 GeOID SIG Meet & Greet		Case Room 2 GeoDiscovery / ANZIC SIG Meeting		Case Room 3 GeoNet Programme Update	
	098 Lecture Theatre		073 /OGGB4 Room		092 /OGGB3 Room	
13.30 – 15.30	6A Active Tectonics and Earthquakes of Aotearoa New Zealand <i>Chairs: James Muirhead, University of Auckland; Andy Nicol, University of Canterbury; Jade Humphrey, University of Canterbury</i>		6B The Aotearoa New Zealand geoscience data landscape: management, computing and dissemination solutions <i>Chairs: Elisabetta D'Anastasio, GNS Science; Jonathan Hanson, GNS Science; Mark Rattenbury, GNS Science</i>		6C Distributed Volcanism: Processes, Products, and Hazards <i>Chairs: Kate Mauriohoo, Massey University; Simon Barker, Victoria University of Wellington; Jan Lindsay, University of Auckland</i>	

13.30 – 13.45	Paleoseismology of the Hope Fault Conway Section and Evidence for Along-System Earthquake Clustering Jade Humphrey, University of Canterbury - Te Whare Wānanga O Waitaha	Keynote: Data is a taonga - Governance of Māori data in Crown Research Institutes Linley Jesson, Bioeconomy Sciences Institute	Application of Anisotropy Magnetic Susceptibility (AMS) to base surge deposits of the Auckland Volcanic Field: Implications for depositional processes and runout distance Gemechu Teferi, University of Auckland
13.45 – 14.00	Laboratory and thermo-mechanical modelling constraints on the seismic-aseismic transition depth, Wellington region, New Zealand Carolyn Boulton, Te Herenga Waka Victoria University of Wellington		It's a Gas!: Volcanic Emissions and Fluxes in the Auckland Volcanic Field, Aotearoa New Zealand Elaine Smid, University of Auckland
14.00 – 14.15	Laboratory constraints on greywacke fault zone elasticity throughout the seismic cycle Lars Hansen, Te Herenga Waka Victoria University of Wellington	Availing geoscience with national and international data standards Mark Rattenbury, Earth Sciences NZ	Modelling fire hazard from lava flows in the Auckland Volcanic Field Aisling Kerr, University of Auckland
14.15 – 14.30	Toward a New Zealand Community Velocity Model Hannu Seebeck, Earth Sciences NZ	The NZP&M Geodata Catalogue. Three years on: Growth, Pipelines, Lessons Learnt and the Future Giovanni Pradel, MBIE	Complex building damage at lava flow margins: Insights from the 2021 Tajogaite eruption, La Palma Janine Krippner, University of Waikato
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-Marōa area between two supereruptions: Whakamaru and Ōruanui Kate Mauriohoo, Massey University
14.45 – 15.00	Geophysical imaging of the Paeroa Fault: Insights from a dense nodal seismic array Brook Keats, Earth Science NZ	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/ Afternoon Tea	
16.30 – 17.30		GSNZ AGM	
19.00 – late		Awards Dinner (rsvp required)	

Thursday 27 November 2025

08.00 – 18.00	Registration Desk Open		
09.00 – 09.25	Plenary Talk - Sian France, BECA		
09.25 – 09.30	Move rooms		
	098 Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 Room
09.30 – 10.30	7A Understanding tectonic and magmatic processes <i>Chair: Jennifer Eccles, University of Auckland</i>	7B The Aotearoa New Zealand geoscience data landscape: management, computing and dissemination solutions <i>Chairs: Elisabetta D'Anastasio, GNS Science; Jonathan Hanson, GNS Science; Mark Rattenbury, GNS Science</i>	7C Tāmaki Makaurau Auckland – a Geoscience Laboratory <i>Chairs: Kasper Van Wijk, University of Auckland; James Muirhead, University of Auckland</i>

09.30 – 09.45	Something's Got to Give : Highly heterogeneous deformation in the Ross Ice Shelf is associated with composite sutured zones Ruari Macfarlane, University of Otago	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 intraplate 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 Tōhoku-oki earthquake? Ron Hackney, Australia New Zealand International Scientific Drilling Consortium	GeoNet Seismic Benchmark Dataset for AI-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	Full waveform inversion reveals high-resolution crustal structure within the Southern Hikurangi Margin frontal wedge: Implications for physical conditions along the shallow megathrust Brook Tozer, Earth Sciences NZ	Agentic Workflows: Shaping the Future of Scientific Software with AI Florent Aden-antoniow, Earth Sciences NZ	Mantle deformation in northwestern North Island, New Zealand Jade Robinson, Victoria University of Wellington Te Herenga Waka
10.30 – 11.00		Morning Tea	
	<i>098 Lecture Theatre</i>	<i>073 / OGGB4 Room</i>	<i>092 / OGGB3 Room</i>
11.00 – 12.30	8A Understanding tectonic and magmatic processes <i>Chair: Jennifer Eccles, University of Auckland</i>	8B(i) Deciphering the environmental past, present and future of Aotearoa <i>Chairs: Paul Augustinus, University of Auckland; Barry O'Connor, University of Auckland; Laura McDonald, University of Auckland</i>	8C(i) Tāmaki Makaurau Auckland – a Geoscience Laboratory <i>Chairs: Kasper Van Wijk, University of Auckland; James Muirhead, University of Auckland</i>
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 Strogon, 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	8B(ii) Paleontology for the People <i>Chairs: Chris Hollis, Victoria University of Wellington; Bruce Hayward, Geomarine Research</i>	

	mapping of the Modgunn vent, offshore mid-Norway Luisa Rollwage, University of Canterbury	Nō hea tō whenua – Where is your land from? 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
12.00 – 12.15	Exceptional normal fault offsets in the aftermath of the 232 CE Taupō eruption Madisen Snowden, Earth Sciences NZ		8C(ii) Geoscience and Societal Resilience <i>Chair: Jennifer Eccles, University of Auckland</i>
12.15 – 12.30	The Volcano WakaLab at Teneikoula Volcano, Solomon Islands C Ian Schipper, Victoria University of Wellington	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	Formation of Pele's hair by stretching of bubbly magma Janina Gillies, University of Canterbury	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 – 13.45		Lunch	
	098 Lecture Theatre	073 /OGGB4 Room	092 /OGGB3 Room
13.45 – 14.45	9A Geoscience advances with synchrotron radiation <i>Chair: Michael Rowe, University of Auckland</i>	9B Volcanic Lakes: Dynamics, Hazards, and Community Resilience <i>Chairs: Agnes Mazot, GNS Science; AJ Marshall, Victoria University of Wellington; Cynthia Werner, US Geological Survey Contractor; Bruce Christenson</i>	9C Geoscience and Societal Resilience <i>Chairs: Jennifer Eccles, University of Auckland; Jennifer Andrews, Earth Science NZ; Victoria Miller, Earth Science NZ</i>
13.45 – 14.00	Illuminating Earth: How Synchrotron Light can Answer Geoscience Questions Andrew Langendam, ANSTO Australian Synchrotron	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	Using the XAS and MEX beamlines at the Australian Synchrotron to analyse laterite ores undergoing critical metal extraction using Fe(II) mediated recrystallisation and reductive dissolution. Maximilian Mann, Monash University	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
14.15 – 14.30	The impact of diagenesis and acidic alteration on potential trace metal biosignatures in fossilised siliceous hot spring deposits Barbara Lyon, University of Auckland	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	Textural variations in pyroclasts of the 232 CE Taupō eruption – a three-dimensional approach Shannen Mills, Massey University	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 – 15.15	Closing Ceremony		

Friday 28 November 2025

[\(Details on Field Trips Here\)](#)

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)
09.00 – 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)