GSNZ 2025 Conference Provisional Programme

Programme as of 07.10.25. 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** *(rsvp required)*
19.00 – 21.00	**Early-Career Catch-Up** *(rsvp required)*

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** *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*	**1C 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*
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 **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, 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 **Madisen Snowden, 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**		
	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** *Chairs: 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**	Our year of geoethics: learnings and reflections from an interest group and student-run seminar series **Frank Mackenzie, Te Herenga Waka - Victoria University of Wellington**	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**	New Zealand heritage stones. Geoconservation for Earth Sciences outreach **Ilmars Gravis, Geoconservation Trust Aotearoa Pacific**	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	The UC Earth Science Garden: Bringing the field to the classroom	Shallow magma intrusion processes in the Auckland Volcanic Field

	Jack McGrath, University of Canterbury	**Kate Pedley, University of Canterbury**	**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**	Using seismic reflection data analysis to add relevance to undergraduate research projects **Andrew Gorman, University of Otago**	Exposure of different ethnicities to volcanic ashfall in Aotearoa New Zealand **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 **Florent Aden-antoniow, Earth Sciences NZ**	Creative classroom interventions and their impacts on geoscience identity **Emily Pasek, Michigan State University**	Speleothems as Archives of Volcanic Eruptions: A High-Resolution Record from Mt Taranaki **Nathan Collins, University of Auckland**
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** *Chairs: James Muirhead, University of Auckland; Andy Nicol, University of Canterbury; Jade Humphrey, University 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	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 **Ben Kennedy, 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 – 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**	Travel Behavior and Decision-Making During Tsunami Evacuation in Sri Lanka **Chamika Kannangara, RMIT University**
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 *Being a Good Ancestor*		
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** *Chairs: Sam McColl, GNS Science; Jon Tunnicliffe, University of Auckland*	**4B Ka mua ka muri: mātauranga māori and its application in the geosciences** *Chairs: Dan Hikuroa, University of Auckland; Kate Maurihooho, Massey University; Sylvia Tapuke, University of Auckland*	**4C Distributed Volcanism: Processes, Products, and Hazards** *Chairs: Kate Maurihooho, Massey University; Simon Barker, Victoria University of Wellington; Jan Lindsay, University of Auckland*
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** *Chairs: Sam McColl, GNS Science; Jon Tunnicliffe, University of Auckland*	**5B Ka mua ka muri: mātauranga māori and its application in the geosciences** *Chairs: Dan Hikuroa, University of Auckland; Kate Maurihooho, Massey University; Sylvia Tapuke, University of Auckland*	**5C Earth, Energy, and Innovation: Geoscience for the Energy Transition** *Chairs: Andrew La Croix, University of Waikato; Ludmila Adam, University of Auckland*
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 **Andrea Wolter, Earth Sciences NZ**	Sustainable extractive metallurgy for the refining of critical minerals in Aotearoa **Morgan Lowtherl, 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**		
	098 Lecture Theatre	*073 /OGGB4 Room*	*092 /OGGB3 Room*
13.30 – 15.30	**6A Active Tectonics and Earthquakes of Aotearoa New Zealand** *Chairs: James Muirhead, University of Auckland; Andy Nicol, University of Canterbury; Jade Humphrey, University of Canterbury*	**6B 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*	**6C Distributed Volcanism: Processes, Products, and Hazards** *Chairs: Kate Maurihooho, Massey University; Simon Barker, Victoria University of Wellington; Jan Lindsay, University of Auckland*
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**	**<u>Keynote:</u>** 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-Maroa area between two supereruptions: Whakamaru and Ōruanui **Kate Mauriohooho, 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** *Chair: Jennifer Eccles, University 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	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**		
	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* Chemical time capsules: How we can use molecular fossils as markers of environmental change **Bella Duncan, Earth Sciences NZ/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**	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* **Keynote:** Science Advisory Panels: Enhancing Decision-

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**	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** *Chair: Michael Rowe, University 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	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) meditated 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)