	MONDAY, 28 November		
	Modelling Synthetic Earthquakes and Tsunami Workshop ***Andy Nicol (University of Canterbury) and Bill Fry (GNS Science)*** 9.30-16.30, *Sport & Rugby Institute*	**Microanalysis in the Earth Sciences Workshop** ***Ery Hughes (GNS Science)*** 8.30-17.30, *AHB-1.35a-c (AgHort Building)*	
16.00-19.00	**REGISTRATION, SSLB foyer**		*Icebreaker sponsored by* NEW ZEALAND TOURISM / 100% PURE NEW ZEALAND businessevents.newzealand.com
17.00-19.00	**ICEBREAKER Function, Wharerata**		
from 19.30	**Early Career Researcher mixer, Rosie O'Grady's Irish Pub**		

	CONFERENCE PROGRAMME for TUESDAY, 29 November		
07.00	**REGISTRATION**		
08.30	**OPENING CEREMONY SSLB1 (live-streamed to SSLB 2 overflow room)** Mihi Whakatau (Terry Hapi) Conference opening address (Simon Hall) Conference Opening Welcome (convenors) Turitea Kapa Haka Roopu		*Bus transport for Kapa Haka Roopu sponsored by* tranzit coachlines
09.15	*Plenary sponsored by* GNS SCIENCE TE PŪ AO **PLENARY 1 SSLB1 (live-streamed to SSLB 2 overflow room)** **Charlotte Severne *"Once a Geologist, always a Geologist - 25 years on"***		
	SSLB1	***SSLB2***	***SSLB3***
9.45-10.45	1.1: **1a. Maunga Puia** *Jon Procter, Sarah Tapscott (Massey University)*	1.2: **3a. Communication, Education & Disaster Risk** *Sally Potter (GNS Science); Alana Weir (University of Canterbury)* EQC	1.3: **2d. Integrated Coastal Dynamics** *Kyle Bland, Phaedra Upton (GNS Science)*
9.45-10.00	**Jarvis PA** et al. - Interaction between vortices and settling-driven gravitational instabilities at the base of volcanic clouds	**Hudson-Doyle EEH** et al. - Uncertainty: Where do individuals think it comes from? Understanding mental models of natural hazards science and advice	**Lawrence MJF** et al. - Sedimentation Patterns in a Small Modern Anthropogenically-Influenced Estuary, Otuwhero Inlet, Abel Tasman
10.00-10.15	**Kereszturi G** et al. - Porosity, strength, and alteration – Volcano stability assessment using VNIR-SWIR reflectance spectroscopy	Das M, **Becker JS** et al. - Understanding communication processes and decision making during different stages of volcanic activity in Aotearoa New Zealand	**Bloom C** et al. - Earthquakes and Coastal Cliff Retreat in New Zealand
10.15-10.30	**Mills S** et al. - Textural characteristics of tephra formations as a proxy for understanding the impacts of a collapse cycle on the eruptive products at stratovolcanoes.	**Charlton D** et al. - Co creating a volcanic hazard mapping framework for Aotearoa New Zealand	**Keller ED** et al. - Modelling the probability of inundation with Bayesian Networks: A pilot study in the Hauraki Plains
10.30-10.45	Rooyakkers SM, **Chambefort I** et al. - Tracking Magma-Crust-Fluid Interactions at High Temporal Resolution: Magmatic Oxygen Isotopes in the Central Taupō Volcanic Zone	**Lake-Hammond A** & Orchiston C - Sharing the Science Beneath Our Feet: Preparing for the next Alpine Fault earthquake	**Bland KJ** et al. - Co-designing research for environmental, social, and cultural benefit: Tātaihia te Parataiao o te Wahapū – Hokianga Harbour Sedimentation Project
10.45-11.15	**Morning Tea**		

	SSLB1	*SSLB2*	*SSLB3*
11.15-13.00	2.1: **1a. Maunga Puia** *Jon Procter, Shannen Mills (Massey University)*	2.2: **1d. Seismotectonics of Aotearoa/NZ & beyond** *Camilla Penney (University of Canterbury); Genevieve Coffey (GNS Science); Jack Williams (University of Otago)*	2.3: **2e. Marine geological processes** *Jess Hillman (GNS Science); Sally Watson (NIWA); Karsten Kroeger (GNS Science); Sarah Seabrook (NIWA)*
11.15-11.30	**Heise W** et al. - Mesh Design for inversion model resolution of the magmatic system beneath Mount Tongariro, New Zealand	**Ellis S** et al. - Transient fluctuations in stress and slip caused by geometric irregularities in shear zones: Field examples and numerical model analogues for active subduction interface deformation	**Maier KL** et al. - Dynamic seafloor environments – High-resolution measurements from Kaikōura Submarine Canyon
11.30-11.45	Otway P, **Illsley-Kemp F** & Mestel ERH - Taupō volcano's restless nature revealed by 42 years of deformation surveys, 1979–2021	**Perez-Silva A** et al. - Properties of slow slip events explained by numerical model of rate-strengthening faults subject to periodic pore fluid pressure perturbations	**Orpin AR** et al. - Using the 2016 Kaikōura earthquake to test hypotheses that underpin turbidite paleoseismology
11.45-12.00	**Kósik S** et al. - New constraints on the age and timescale of activity of the Puketerata maar-lava dome complex, Taupō Volcanic Zone, New Zealand	**Pita Sllim O** et al. - Spatiotemporal analysis of repeating earthquakes near Pōrangahau, Hikurangi Margin, New Zealand.	**Tickle S** et al. - 2016 Kaikōura earthquake turbidite shows that a single core could be representative of the seismic history of a submarine distributary system
12.00-12.15	**Mestel ERH** et al. - Three years of earthquake activity at Taupō volcano investigated with an enhanced seismic network	**Seebeck H** et al. - Geologic, earthquake and tsunami modelling of the active Cape Egmont Fault Zone	**Kroeger KF** et al. - Microbial gas generation and gas hydrate formation at the New Zealand Hikurangi Margin
12.15-12.30	**Piva S** et al. - Resolving past eruptive impacts from Taupō supervolcano using novel high resolution sampling techniques	**Stern T** et al. - Crustal structure, mantle melt zones and processes beneath the Taupo Volcanic Zone, New Zealand: evidence from active-source seismic exploration and GPS data	**Hillman JIT** et al. - Redefining the southern extent of the Hikurangi Margin Gas Hydrate Province
12.30-12.45	**Thrasher G** et al. - Interaction of Taranaki Maunga and the Cape Egmont Fault Zone	Eberhart-Phillips D, **Stirling M** et al. - The influence of basement terranes on tectonic deformation: joint earthquake travel-time and ambient noise tomography of the southern South Island, New Zealand	**Davy B** et al. - Sub-bottom profiler dating of glacial horizons and the timing of carbonate mound formation on the Southern Hikurangi Margin
12..45-13.00	**Davidson A** et al. - Challenging the paradigm of ^{238}U-excesses dominating arc settings: A Uranium-series isotopic investigation of Mt Taranaki, New Zealand	**Stirling M** et al. - Earthquake source characterisation in southern New Zealand: an update	**Black JA** et al. - 100% of the World Ocean floor mapped by 2030 - The Nippon Foundation/GEBCO Seabed 2030 project
13.00-14.30	**Lunch, meetings, and poster viewing**		
13.30-14.30	LAVANZ SIG *Geoff Kilgour* *SSLB1*	GeOID SIG *Jenny Stein* *GLB2.03*	WOMEESA *Jess Hillman* *GLB2.05*

	CONFERENCE PROGRAMME for TUESDAY, 29 November		
	SSLB1	***SSLB2***	***SSLB3***
14.30-16.00	3.1: **1a. Maunga Puia** *Jon Procter (Massey University); Marlena Prentice (University of Waikato)*	3.2: **1d. Seismotectonics of Aotearoa/NZ & beyond** *Camilla Penney (University of Canterbury); Genevieve Coffey (GNS Science); Jack Williams (University of Otago)*	3.3: **2e. Marine geological processes** *Jess Hillman (GNS Science); Sally Watson (NIWA); Karsten Kroeger (GNS Science); Sarah Seabrook (NIWA)*
14.30-14.45	**Bann G** et al. - Newly identified tuffs from the early - mid Permian southern Sydney Basin: explosive volcanism and associated ecological mortality derived from northwest Zealandia.	**Matheson A** et al. - Modelling Earthquake Sources in Aotearoa using Joint Analysis of Seismological and Geodetic Data	**Beagley JE** et al. - Paleoenvironment and sediment basins in Dusky Sound, New Zealand characterised through seismic stratigraphy and sediment cores
14.45-15.00	**Huebsch M** et al. - Using 3D textures to assess magma-water interaction dynamics across varying conditions at Hunga volcano	**Hirschberg H** & Sutherland R - A Kinematic Model of New Zealand Fault Slip Rates and Distributed Deformation	**Isson TT** & Rauzi S - Do silica secreting organisms regulate climate on Earth?
15.00-15.15	**Krippner J** et al. - Geomorphological evolution of the Ngāuruhoe summit from the 1800s to the present day	**Warren-Smith E** et al. - Using Microearthquakes to Probe the Structure and Mechanics of Alpine Fault Segment Boundaries and Quantify Implications for Future Rupture	**Nodder SD** et al. - Importance of near-bed lateral processes in biogenic fluxes to the seafloor in deep-water environments, Aotearoa New Zealand
15.15-15.30	**Stern S** et al. - New insights into one of the largest submarine caldera eruptions of the last 2000 years in the South Pacific, the ~AD1450 Kuwae eruption, Vanuatu	**Bourguignon S** et al. - 3D image of seismic attenuation along the central Alpine Fault, New Zealand, from dense temporary seismic array data	**Ribó M** et al. - Microplastics in marine sediments: Findings from the first study around Aotearoa/New Zealand
15.30-15.45	**Zernack AV** et al. - The origin, preservation and prehistoric human use of ocean-rafted pumice found in raised beach ridges and archaeological sites in Northern Norway	**Sintenie J** et al. - Slip rates on the eastern Hope Fault, New Zealand	**Warnke F** et al. - High-resolution images of paleo-pockmarks on the Chatham Rise using densely spaced echosounder profiles
15.45-16.00	**O'Brien L** et al. - Providing a tephrochronological framework for 10myrs of deposition in the Southern Wairarapa	**Townend J** et al. - The Southern Alps Long Skinny Array (SALSA): Virtual Earthquake Analysis of Future Alpine Fault Earthquakes and Ground-Shaking	**Watson SJ** et al. - The footprint of ship anchoring on the seafloor
16.00-17.30	**Poster session/afternoon tea: SSLB Upper Foyer**		
Sponsored by NIWA Taihoro Nukurangi	1a. Maunga Puia: A1-21 1b. Igneous Petrology: A22-32 1d. Seismotectonics: A33-48	3a. Communication, Education, Disaster Risk: A49-51 2d. Integrated Coastal Dynamics: A52-53 2e. Marine geological processes: A54-59	2b. Our Changing landscapes: A60-69 4c. Engineering Geology/Geomorphology: A70-72 4b. Remote Sensing & Geospatial Data: A73-81

17.30-19.00	**PUBLIC LECTURE SSLB1 (live-streamed to SSLB 2 overflow room)** **Sally Potter *"Warning! Natural hazard forecasts and why people respond in different ways"*** **Kate Clark *"Past coastal earthquakes and tsunamis of Aotearoa/New Zealand, and preparing for our shaky future"***
19.00-late	**FUN AND GAMES BBQ DINNER Sports and Rugby Institute**

	CONFERENCE PROGRAMME for WEDNESDAY, 30 November		
07.00	**REGISTRATION**		
08.00-08.30	**PLENARY 2 SSLB1 (live-streamed to SSLB 2 overflow room)** **Kim Martelli *"A Career in the Geosciences: A world of opportunities from exploration to engineering!"***		
	SSLB1	***SSLB2***	***SSLB3***
08.30-10.00	4.1: **Special Session 1e. Okataina Volcanic Centre** *Ted Bertrand, Cécile Massiot, Cornel de Ronde (GNS Science)*	4.2: **1c. Zealandia through space & time** *Dominic Strogen (GNS Science); James Crampton (VUW)*	4.3: **3c. Science in response and recovery** *Bill Fry, Anna Kaiser, Jen Andrews, Libby Abbott (Te Pū Ao)* ***Sponsored by*** EQC
08.30-08.45	**Bertrand T** et al. - Inferring the roots of volcano-geothermal systems in the Rotorua and Okataina calderas with Magnetotelluric models	**Strogen D** et al. - Palaeogeographic evolution of Zealandia: mid-Cretaceous to present	**Kaiser A** et al. - Rapid characterisation of earthquakes & tsunami (R-CET programme) - The local earthquake challenge
08.45-09.00	**Hamling I** et al. - Estimating the distribution of melt beneath the Okataina Caldera, New Zealand: An integrated approach using geodesy, seismology and magnetotellurics	**Palmer M** et al. - The timing of Dun Mountain Ophiolite emplacement via Rb-Sr isotope dating of metasomatic reactions along the Livingstone Fault	**Andrews J** et al. - Rapid rupture characterisation for New Zealand using the Finite-fault Rupture Detector (FinDer) Algorithm
09.00-09.15	**Carson L** et al. - 3D Visualisation model of the basement geology and caldera structure at Ōkataina Volcanic Centre	**MacFarlan D** - Zealandian Brachiopod faunas and the Jurassic Crises	Horspool N, …, **Kaiser A** et al. - GeoNet's Shaking Layer Tool: Automatic generation of maps of near-real time ground shaking for post-event response
09.15-09.30	**Villamor P** et al. - Fault Ruptures Triggered by Large Rhyolitic Eruptions at the Boundary Between Tectonic and Magmatic Rift Segments: The Manawahe Fault, Taupō Rift, New Zealand	**Powell NG** - Continental glaciation in New Zealand and West Antarctica during the Plenus Cold Event: relevance for modelling geoengineered CO_2 drawdown via ocean fertilisation	**Holden C** et al. - Engaging with End-users Towards an Earthquake Early Warning System for New Zealand
09.30-09.45	Berryman K, **Villamor P** et al. - Volcano-tectonic interactions at the southern margin of the Okataina Volcanic Centre, Taupō Volcanic Zone	**Young G** et al. - A Cretaceous Ichthyosaur from North Canterbury	**Gledhill K** & Fry B - RCET Contribution to Rapid Tsunami Threat Characterization
09.45-10.00	**Hughes E** et al. - SO_2 emissions from explosive basaltic eruptions at Okataina	**Hollis CJ** et al. - Making sense of Paleocene Zealandia	**Taylor-Offord S** & McDougall T - The Story of a Seismic Network: the R-CET Te Tai Tokerau Northland Array
10.00-10.30	**Morning Tea**		

	SSLB1	*SSLB2*	*SSLB3*
10.30-12.00	5.1: **Special Session 1e. Okataina Volcanic Centre** *Ted Bertrand, Cécile Massiot, Cornel de Ronde (GNS Science)*	5.2: **1c. Zealandia through space & time** *Dominic Strogen (GNS Science); James Crampton (VUW)*	5.3: **4e. Geoscience for Future Energy Systems** *Mac Beggs (University of Canterbury); Julie Palmer (Massey University)*
10.30-10.45	**White P** & Leonard G - Evolution of geology and groundwater-geothermal systems in the Okataina caldera groundwater catchment	**De Pietri VL** et al. - Marine Avian Diversity in the Paleocene of New Zealand	**Bennett D** - The Last Frontier (for now)
10.45-11.00	**Pearson-Grant S** et al. - Fluid and heat flow in the Ōkataina Volcanic Centre and at Lake Rotomahana, New Zealand	**Thomas DB** et al. - Largest-known fossil penguin moves peak body size closer to first appearance of Sphenisciformes in Zealandia	**Beggs M** et al. - Hikurangi Margin Gas Hydrate Deposits: Might they ever have been developed as an energy resource?
11.00-11.15	**Stucker V** et al. - Comparison of hydrothermal fluids and fields of the northern Okataina Volcanic Centre: fifty years ago to present time	**Parker M** et al. - Provenance of Miocene–Pleistocene conglomerates in the northern Canterbury Basin: implications for exhumation along the Pacific–Australian plate boundary	**Chambefort I** et al. - Geothermal: The next generation - Advancing the understanding of New Zealand's supercritical resources (**Keynote**)
11.15-11.30	**De Ronde CEJ** et al. - The geology and geophysics of Lake Rotoiti, New Zealand: Implications for sublacustrine geothermal activity	**Sagar M** et al. - An age model for the Tongaporutuan (Late Miocene) reference section, northern Taranaki	**Nicol A** et al. - Underground Storage of Green hydrogen in Aotearoa-New Zealand
11.30-11.45	**Yang J** et al. - Understanding caldera degassing from a detailed investigation at Lake Rotoiti, Okataina Volcanic Centre, New Zealand	**Shalla Y** et al. - Active faults identified between the Taupō Rift and the North Island Dextral Fault Belt: kinematics and links with volcanism from the Taupō Volcanic Centre	Adam L, **Dempsey D** et al. - Opportunities for CO_2 Sequestration in New Zealand Rocks
11.45-12.00	**Massiot C** et al. - CALDERA: a scientific drilling idea to unravel Connections Among Life, geo-Dynamics and Eruptions in a Rifting Arc caldera	**Upton P** et al. - Plate boundary intracontinental transfer across the developing Marlborough Fault System, New Zealand	**Yates E** et al. - Petrophysical properties and reservoir potential of rhyolitic lava domes
12.00-13.30	**Lunch, meetings, and poster viewing**		

12.30-13.30	Scientific drilling - CALDERA *Cécile Massiot* *SSLB1*	Geochemistry SIG *Sebastian Naeher* *GLB2.03*	Sedimentology *Mark Lawrence* *GLB2.05*	Oil & Gas SIG *Mac Beggs* *GLB3.01*	Palaeontology SIG *Daniel Thomas* *GLB3.02*

	CONFERENCE PROGRAMME for WEDNESDAY, 30 November		
	SSLB1	***SSLB2***	***SSLB3***
13.30-15.30	6.1: **Special Symposium NZNSHM 2022** *Matt Gerstenberger, Russ Van Dissen (GNS Science)*	6.2: **2c. Climate and environmental change** *Peter Almond (Lincoln University); Shaun Eaves (VUW); Olivia Truax, David Barrell (GNS Science)*	6.3: **4a. Computational Advances in Geosciences** *Stuart Mead (Massey University); David Dempsey (University of Canterbury)*
13.30-13.45	**Gerstenberger M** et al. - The 2022 Aotearoa New Zealand National Seismic Hazard Model	**Wheeler C** et al. - Do cyanobacterial blooms occur naturally in dune lakes?	**Fry B** et al. - Physics to resilience: Next generation earthquake and tsunami response (**Keynote**)
13.45-14.00	**Bora S** et al. - The 2022 revision of National Seismic Hazard Model (NSHM) for New Zealand: candidate Ground-Motion Models (GMMs) and associated hazard sensitivities	Ryan M, **Holt K** et al. - Source-to-sink archives of vegetation change since the Last Glacial Maximum, Waipaoa Sedimentary System, New Zealand.	**Wang X** et al. - COMCOT tsunami simulation model – features and recent applications
14.00-14.15	**Seebeck H** et al. - The New Zealand Community Fault Model version 1.0	**Shorrock A** et al. - Sedimentary response to glacio-eustatic changes in the Northern Hikurangi subduction margin, New Zealand	**Steinke B** et al. - Automatic recognition of pre- and syn-eruptive seismic patterns at andesitic, dome-building stratovolcanoes
14.15-14.30	**DiCaprio C** et al. - Computational Infrastructure of the NZ-NSHM: how to calculate REALLY BIG seismic hazard models	**Gorman AR** et al. - Seismic and gravity constraints on the stratigraphy of the Siple Coast region underlying the Kamb Ice Stream, Antarctica	Ardid A, **Dempsey D** et al.- Discovering eruption precursors & identifying fluid release events from correlations of feature time series engineered from seismic records: Applications to Whakaari & Ruapehu volcanoes
14.30-14.45	**Coffey G** et al. - Derivation of paleo-earthquake recurrence intervals and probabilities of detection for NZ NSHM 2022, and impact on hazard	**Grant G** et al. - Regional amplified warming in the Southwest Pacific during the mid–Pliocene (3.3–3.0 Ma)	**Hernandez BC** et al. - Geochemistry: What can it tell us about eruption explosivity?
14.45-15.00	Manea E, **Kaiser A** et al. - Evaluation of site parameters to inform seismic site characterization in New Zealand	**Rauzi S** & Isson TT - Marine clay formation across the end-Permian mass extinction event.	**Huijser D** et al. - BIROC-H_20: A new way to process FTIR spectra of olivine hosted basaltic melt inclusions
15.00-15.15	**Litchfield N** et al - New Zealand Paleoseismic Site Database	**Verleijsdonk B** et al. - Novel techniques for reconstructing relative changes in past UV-B flux	**Morice S** et al. - The Taranaki 3D Cluster Buster: A Regional Scale Seismic Dataset enabled by High-Performance Computing
15.15-15.30	**Wallace L** et al. - Geodetic deformation model for the 2022 New Zealand National Seismic Hazard Model	**Griffin AG** et al. - GNS Science's journey to be carbon neutral by 2025	Mavroeidi M & **Rattenbury M** - Fair principles applied to high-value geoscience datasets
15.30-17.00	**Poster session/afternoon tea: SSLB Upper Foyer**		
	1e. Okataina Volcanic Centre: B1-5 2a. Natural Hazards: B6-20 Special Symposium NZNSHM 2022: B21-25 3c. Science in response & recovery: B26-31	3b. GeoEducation, Outreach, Int Development B32-37 1c. Zealandia through space & time: B38-44 2c. Climate & environmental change: B45-55 4d. Geochemical Tools & Applications: B56-62	4a. Computational Advances: B63-68 4e. Future Energy Systems: B69-72 4f. Mineral Deposits: B73-75
17.00-18.00	**GSNZ AGM**		
18.30-18.40	*Buses depart Massey University*		
19.00 – 0.00	**Conference Gala Dinner "Dream Big: Opening the Door to a Whole New World", Awapuni Racecourse**		

	CONFERENCE PROGRAMME for THURSDAY, 01 December		
07.00	**REGISTRATION**		
08.00-08.30	**PLENARY 3 SSLB1 (live-streamed to SSLB 2 overflow room)** **Hollei Gabrielsen *"Herenga tangata, hononga ki te whenua."***		
	SSLB1	***SSLB2***	***SSLB3***
08.30-9.30	7.1: **2a. Natural Hazards** *Melody Whitehead, Stuart Mead, Mark Bebbington (Massey University)*	7.2: **1b. Igneous Petrology & Geochemistry** *Georg Zellmer (Massey University); Carlos Santa Cruz (Massey University)*	7.3: **2b. Our Changing landscapes** *Sam McColl, David Barrell (GNS Science); Kevin Norton (VUW); Karoly Nemeth*
08.30-08.45	**Roger J** et al. - The global tsunami triggered by the Mw 8.1 South Sandwich Islands earthquake of the 12 August 2021: records and consequences in NZ	**Burgin D** et al. - Deciphering the Martian mantle from in-situ $^{87}Sr/^{86}Sr$ measurements on shock melted plagioclase in Martian meteorites	**Rees C** et al. - Following the Waitapu Shell Conglomerate (0.9 Ma) across the Whanganui Basin
08.45-09.00	**Bull S** et al. - Landslides as tsunami sources in the Tasman Sea/ Te Tai-o-Rēhua	**Baxter RJM** et al. - Magma-flux regulated final depths of magma storage under Iceland	**McEwan E** et al. - Investigating coseismic avulsion hazards: A new approach for earthquake and flood hazard assessment
09.00-09.15	**Williams S** et al. - From Geological evidence to tsunami impact forecasting in the Southwest Pacific Islands	**Rattenbury M** et al. - Pluton Map characterisation of Aotearoa New Zealand's intrusive rocks	**Wilson-Harding I** et al. - Reconstructing Landscape Change from Earthquakes and Storm Events in Lake Gunn, Fiordland
09.15-09.30	**Hughes L** et al. - Assessing Tsunami Hazard in New Zealand using a Long Time Scale Synthetic Earthquake Catalogue	**Seelig LK** et al. - Using trace element and isotope geochemistry of central Taupō Volcanic Zone (New Zealand) granitoids to understand the processes contributing to silicic magmatism	**Watson L** et al. - Using local infrasound arrays to detect plunging snow avalanches along the Milford Road, New Zealand | Aotearoa
9.30-10.30	8.1 National SCIENCE Challenges — RESILIENCE TO NATURE'S CHALLENGES — Kia manawaroa – Ngā Ākina o Te Ao Tūroa	8.2: **1b. Igneous Petrology & Geochemistry** *Continued*	8.3: **4c. Engineering Geology/Geomorphology** *Sam McColl, Saskia de Vilder, Andrea Wolter, Kerry Leith (GNS Science)*
9.30-9.45	Borrero JC, **Cronin S** et al. - Tsunami in Tonga from the January 2022 eruption of Hunga Volcano	**Corella Santa Cruz C** et al. - New comprehensive Pb isotopic data elucidate novel petrogenetic processes across the Taupo Volcanic Zone	**De Vilder S** et al. - Disaggregating Landslide Risk: What drives landslide risk in Franz Josef and Fox Glacier Valleys?
9.45-10.00	**Cronin S** et al. – The big boom	Coulthard et al. (**Zellmer G**) - Plutonic nature of transcrustal magmatic systems revealed by sub-micron Sr-disequilibria in plagioclase	**Singeisen C** et al. - Mechanisms of rock slope failures triggered by the 2016 Kaikōura earthquake
10.00-10.15	**Cave M** - Impact of cascading severe weather events on vulnerable communities	**Lewis KR** et al. - Experimental Constraints on Homogenization of Plagioclase-Hosted Melt Inclusions from Plagioclase Ultraphyric Basalts	**Stronach A** & Stern T - A New Basin-Depth Map of the Fault-Bound Wellington CBD Based on Residual Gravity Anomalies
10.15-10.30	**Johns B** & Cave M - New Zealand National Lidar and Regional Applications	**Werner C** et al. - Is Taranaki Exhaling? Detecting Volatile Emissions from a Dormant Volcano	Kirk P**, Dixon B** et al. - An evolving story of the geology of the Manawatū Saddle: Evidence from the Manawatū-Tararua highway
10.30-11.00	**Morning Tea**		

	SSLB1	*SSLB2*	*SSLB3*
11.00-13.00	**9.1: 2a. Natural Hazards** *Melody Whitehead, Stuart Mead, Mark Bebbington (Massey University)*	**9.2: 4d. Geochemical Tools & Applications** *Sebastian Naeher (GNS Science); James Scott (University of Otago)*	**9.3: 4b. Remote Sensing & Geospatial Data Analysis** *Gabor Kereszturi (Massey University); Ian Hamling (GNS Science)*
11.00-11.15	**Lang J** et al. - Earthquake-controlled episodic growth of a Holocene stalagmite, eastern North Island, New Zealand.	**Bird M** - Abundance and isotope (^{13}C, ^{14}C) composition of pyrogenic carbon **(Keynote)**	**Lamb O** et al. - Listening to a basaltic fissure eruption: Key findings from the 2021 Fagradalsfjall eruption, Iceland
11.15-11.30	**Viskovic P** et al. - Digitising and vectorising paper seismograms in the national earthquake information database		**Perttu A** - An automated approach to plume height estimation using infrasound from local to remote
11.30-11.45	**Penney C** et al. - In good shape? The impacts of variable fault geometries on synthetic earthquake catalogues from physics-based earthquake simulators	**Webster-Brown J** et al. - Wild Fire Geochemistry: Lessons for Managing Future Impacts on Water Quality	Haneef S, **Van Wijk K** et al. - Distributed Acoustic Sensing (DAS) for geophysical applications in Aotearoa, New Zealand
11.45-12.00	**Liao Y-W M** et al. - The role of frictional heterogeneities in the earthquake cycle	**Naeher S** et al. - Tracing organic matter derived from Australian dust and bushfires in New Zealand using lipid biomarkers	**Kellett R** et al. - Integration of Airborne Electromagnetic models with ground geophysics and detailed borehole data: Heretaunga Plains
12.00-12.15	**Humphrey J** et al. - Earthquake timings and fault interactions in Central New Zealand	**Balfoort L** et al. - Environmental conditions of the West Antarctic Ice Sheet during the Miocene: insights from organic biomarker distributions	**Nersezova EE** et al. - Composition and structure of hot spring digitate sinter: preparation for remote sampling on Mars
12.15-12.30	**Howarth J** et al. - Quantitative lacustrine paleoseismology may reveal the rupture direction of the 1717 CE Alpine Fault earthquake		**Chakraborty R** et al. - Arsenic zonation for mineral prospecting at Rise and Shine Shear Zone, New Zealand, using hyperspectral remote sensing
12.30-12.45	**Langridge R** et al. - The fault in our horizons: Regional active fault mapping updates	**Frontin-Rollet GE** et al. - Geochemical Mapping of Aotearoa's Marine Sediments: an update for Bay of Islands area	**Thwaites M** et al. - A multidisciplinary source to sink approach in mapping erosion 'hot-spots' and sediment pathways in a harbour subcatchment of Te Whakaraupō/Lyttelton, Banks Peninsula.
12..45-13.00		Dietrich Z, **C Reid** et al. - Geochemical fingerprinting of sediment sources infilling Whakaraupō / Lyttelton Harbour, New Zealand	**Jones K** et al. - A new approach to quantify sediment conveyance following the 2016 Kaikōura earthquake, New Zealand
13.00-14.30	**Lunch**		
13.30-14.00	**Catherine Ross (GeoNet Programme Leader) "GEONET – PART OF THE FABRIC OF NEW ZEALAND"** (in SSLB1 & streamed to SSLB2)		

	CONFERENCE PROGRAMME for THURSDAY, 01 December		
	SSLB1	***SSLB2***	
14.30-15.30	10.1: **2a. Natural Hazards** *Melody Whitehead, Stuart Mead, Mark Bebbington (Massey University)*	10.2: **4d. Geochemical Tools & Applications** *Sebastian Naeher (GNS Science); James Scott (University of Otago)*	10.3: **3b. GeoEducation, Outreach & International Development** *Jenny Stein (GSNZ)*
14.30-14.45	**Robert G** & Carazzo G - Study of the formation and dynamics of secondary plumes through 2D experiments and models	**Stirling C** - Biogeochemical cycling of trace metals and their isotopes: Links to past and present climate change **(Keynote)**	**Kennedy B** et al. - Virtual fieldtrips to volcanoes-10-year perspective
14.45-15.00	**Wild A** et al. - Short-term eruption forecasting for the Auckland Volcanic Field using a Bayesian Event Tree		**Boyes A** et al. - A Portal for Geoscience Webmaps and Information on the Te Riu-a-māui / Zealandia Region
15.00-15.15	**Dempsey D** et al. - Evaluation of short-term eruption forecasting at Whakaari, New Zealand	**Rowe MC** et al. - Strontium Isotope Ratios of New Zealand Kauri: An Indicator of Climate Conditions?	**Zakharovskyi V** & Nemeth K - The influence of geomorphological models on geosite recognition utilizing qualitative-quantitative assessment of geodiversity
15.15-15.30	**Bebbington M** et al. - Multiphase Eruption Forecasting Using Analogue Volcano, Eruption and Hazard Sets	**Hilton TW** et al. - Auckland's Fossil Fuel CO_2 Emissions: A Bottom-up Inventory Informed by Atmospheric Radiocarbon Observations	**Stevenson T** et al. - Finding New Zealand's next meteorite with the Fireballs Aotearoa meteor-tracking camera network: conception, results, outreach
15.30-16.30	*NZJGG Best Student Speaker sponsored by* Royal Society Te Apārangi (Explore | Discover | Share) Taylor & Francis Taylor & Francis Group	**CLOSING CEREMONY SSLB1 (live-streamed to SSLB2)** Conference Convenors, 2021/22 Committee and GSNZ NZJGG speech and Best Student Talks Best Student Posters 2023 Convenors	*Best Student Poster sponsored by* Volcanic Risk Solutions

Post-Conference Field Trips

FRIDAY, 2 December		FRIDAY/SATURDAY 2-3 December
Te Ahu a Turanga: Manawatū Tararua Highway and Cultural Sites of Importance CANCELLED *Ben Dixon (Te Ahu A Turanga Alliance) and Terry Hapi (Rangitāne o Manawatu)* *Field trip sponsored by* aurecon Bringing ideas to life	**Land use and stratigraphy within the eastern Whanganui Basin, lower North Island, NZ** *Callum Rees, Alan Palmer, Julie Palmer (Massey University) and Malcolm Todd (Horizons Regional Council)* *Field trip sponsored by* TODD ENERGY	**Mt Ruapehu – Tephra stratigraphy, mass flow deposits & volcanic hazards** *Gabor Kereszturi, Anja Moebis, Jonathan Procter and Stuart Mead (Massey University)*