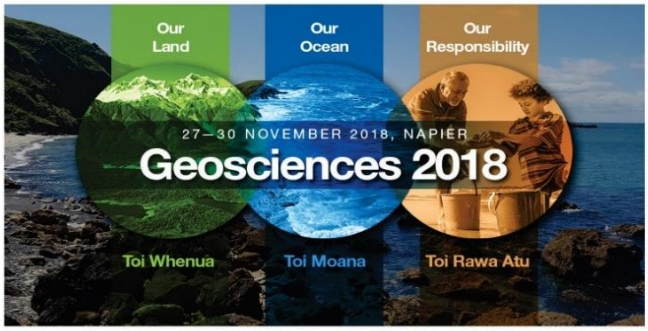

WEDNESDAY

WEDNESDAY MORNING

0845	welcome 15 mins - chair Joe Prebble
0900	NZJGG/TaylorFrancis 5 mins
0915	Prof Juliet Gerrard 10 mins
0930	plenary 1 - Rupert Sutherland - Tasman Sea 25 mins end by 0940

	Stream A - Ballroom		Stream B - Small Exhibition Hall		Stream C - BR2 (downstairs)		Stream D - BR1 (downstairs)	
0945	A1: Learning from large NZ earthquakes Session chair: Bradley Scott	A. Nicol HOW IMPORTANT ARE MULTI-FAULT RUPTURES IN NEW ZEALAND EARTHQUAKES? *KEYNOTE*	B1: TVZ-Kermadec Hydrothermal Session chair: Sarah Milicich	C. de Ronde LARGE-SCALE TRANSPORT OF METALS AT BROTHERS SUBMARINE ARC VOLCANO: EVIDENCE FROM MASSIVE SULFIDE STOCKWORK ZONES	C1: Sedimentary basins and processes Session Chair: Karsten Kroeger	A. Barrier LATE CRETACEOUS-EOCENE UNDERFILLING OF THE CANTERBURY BASIN: WHAT DOES IT TELL US ABOUT EASTERN GONDWANA LANDMASS EVOLUTION?	D1: Geoparks + Geoheritage Session chair: Bruce Hayward	G. Hicks THE UNESCO GLOBAL GEOPARK PROGRAMME IN NEW ZEALAND *KEYNOTE*
1000		T. Brough TECTONIC GEOMORPHOLOGY AND PALEOSEISMOLOGY OF THE HUMPS FAULT WHICH INITIATED THE MW 7.8 2016 KAIKŌURA EARTHQUAKE		F. Caratori Tontini RESULTS OF NEAR-SEAFLOOR GEOPHYSICAL SURVEYS AT BROTHERS VOLCANO		T.R. Sahoo CRETACEOUS FAULT EVOLUTION IN THE GREAT SOUTH BASIN; OBSERVATIONS FROM FAULT GROWTH ANALYSIS		R.E. Fordyce THE VANISHED WORLD TRAIL TO A WAITAKI WHITESTONE GEOPARK
1015		T. A. Little STRUCTURAL GEOLOGY OF A MOLETRACK ACCOMMODATING 9-PLUS METERS OF TRANSPRESSIONAL STRIKE-SLIP DURING THE 2016 MW 7.8. KAIKŌURA EARTHQUAKE, KEKERENGU FAULT, NEW ZEALAND		C. Massiot STRUCTURE AND FLUID FLOW IN ANDESITIC SYSTEMS OF THE TAUPO VOLCANIC ZONE: A FRAMEWORK TO UNRAVEL SUBSEAFLOOR HYDROTHERMAL FLOW PATHWAYS AT BROTHERS VOLCANO, KERMADEC ARC?		R. Schuurmans STRUCTURAL EVOLUTION OF SOLANDER BASIN AND IMPLICATIONS FOR REGIONAL DEFORMATION IN SOUTHERN ZEALANDIA		S. Hampton THE JOURNEY IN CREATING THE TE PATAKA O RAKAIHAUTU / BANKS PENINSULA GEOPARK
1030		A. Howell 3D CO-SEISMIC OFFSETS DURING THE 2016 MW 7.8 KAIKŌURA EARTHQUAKE FROM AERIAL PHOTOGRAMMETRY		[WITHDRAWN: G. Lamarche QUANTITATIVE OCEAN-COLUMN ACOUSTIC IMAGING OVER THE CALYPSO HYDROTHERMAL VENT FIELD, BAY OF PLENTY FIRST RESULTS FROM R.V. TANGAROA TAN1806-QUOI VOYAGE]		C.J. Hollis THE VERY PECULIAR CONDITIONS THAT CREATED THE WAIPAWA FORMATION, ~59 MILLION YEARS AGO		J. Ash THE CASE FOR A UNESCO CAVES & KARST GEOPARK AT WAITOMO
1045	morning tea							
1100								
1115	A1: Learning from large NZ earthquakes	J. Kearse CURVED FAULT STRIATIONS, RUPTURE DIRECTIVITY, AND DYNAMICS OF THE KEKERENGU FAULT DURING THE 2016 MW 7.8 KAIKOURA EARTHQUAKE *KEYNOTE*	B1: TVZ-Kermadec Hydrothermal	D. Eberhart-Phillips HETEROGENEOUS DISTRIBUTION OF SLAB FLUIDS INFLUENCES ALONG-ARC VARIATION OF SUBDUCTION PROCESSES IN THE HIKURANGI SUBDUCTION ZONE	C1: Sedimentary basins and processes Session Chair: Greg Browne	A. Noda FOREARC BASIN FORMATION AND ITS RELATIONSHIP WITH MATERIAL FLUX IN SUBDUCTION ZONES	D1: Geoparks + Geoheritage Session chair: Ewan Fordyce	N.Turoa A MĀORI WORLD-VIEW IN THE MANAGEMENT OF AUCKLAND'S MAUNGA (VOLCANIC CONES)
1130		T. Bushell FAULT RUPTURE PATTERNS COMPLEXITY AND SLIP TRANSFER DURING THE MW7.8 2016 KAIKOURA EARTHQUAKE IN NORTH CANTERBURY, NEW ZEALAND		D. Dempsey EVOLUTION AND ERUPTION OF GEOTHERMALLY COOLED MAGMA BODIES		A.D. McArthur STRATIGRAPHIC RECORD OF PALAEOSEISMICITY ON THE HIKURANGI SUBDUCTION MARGIN: INSIGHTS FROM OUTCROP AND SUBSURFACE STUDIES		A.R. Jamieson PROTECTING GEOHERITAGE THROUGH THE AUCKLAND UNITARY PLAN

	1145		T. Okada STRESS AND STRENGTH CONTROL ON THE 2016 KAIKOURA EARTHQUAKE INFERRED FROM A SEISMIC OBSERVATION		S.D. Milicich VOLCANIC TEXTURE IDENTIFICATION USING A BOREHOLE RESISTIVITY IMAGE LOG IN THE WHAKAMARU GROUP IGNIMBRITE, WAIRAKEI GEOTHERMAL FIELD, NEW ZEALAND		K.F. Kroeger THE MIDDLE MIOCENE IN SOUTHERN TARANAKI BASIN: A RECORD OF OCEANOGRAPHIC AND TECTONIC CHANGE		B.W. Hayward USING THE RESOURCE MANAGEMENT ACT TO PROTECT NEW ZEALAND'S GEOHERITAGE
	1200		G. A. O'Brien IMAGING THE KAIKŌURA AFTERSHOCK SEQUENCE ON A 3D MARINE SEISMIC STREAMER						I.Gravis THE GHOSTS OF OLD VOLCANOES: APPLYING GEOSITE EVALUATION METHODOLOGY AND FRAMEWORK FOR GEOHERITAGE TRAIL DEVELOPMENT FOR THE KUAOTUNU PENINSULA, COROMANDEL
WEDNESDAY AFTERNOON	1215 1230 1245 1300	LUNCH	12:20-13:10: Jess Hillman: WOMEESA (Women in Earth and Environmental Science Australasia) - all welcome	LUNCH	12:20-13:10: Geoff Kilgour: LAVANZ	LUNCH	12:20-13:10: David Johnstone: International research connections	LUNCH	12:20-13:10: Lunchtime session: Bruce Hayward: Geoparks
	1315	A1: Learning from large NZ earthquakes Session chair: Katie Jones, Danielle Lindsay	C. Holden TOWARDS GROUND MOTION PREDICTIONS FOR A LARGE HIKURANGI SUBDUCTION EARTHQUAKE: LESSONS FROM THE KAIKŌURA EARTHQUAKE	B1: TVZ-Kermadec Hydrothermal Session chair: Sarah Milicich	M. Receveur ASSESSMENT OF THE EFFECT OF GEOTHERMAL UTILIZATION ON RESERVOIR PROCESSES INFERRED FROM INSAR (INTERFEROMETRIC SYNTHETIC APERTURE RADAR) MONITORING OF GROUND DEFORMATION: EXAMPLE OF THE REYKJANES HIGH-TEMPERATURE GEOTHERMAL SYSTEM, SW-ICELAND, 2015-2017	C1: Sedimentary basins and processes Session Chair: Greg Browne	S. Nodder FEEDING THE DEEP: SUBMARINE CANYONS AS CONDUITS FOR TRANSFERRING TERRESTRIAL ORGANIC MATERIAL FROM THE COAST TO THE DEEP OCEAN	D1: Geoparks Session chair: Bruce Hayward	J.A. Palmer GEOHERITAGE VALUES AND GEOTOURISM POTENTIAL OF THE WAIRARAPA "MUDSTONE COUNTRY" AND MANAWATU "TERRACE-LAND"
	1330		R. J. Van Dissen IMPACTS OF SURFACE FAULT RUPTURE ON RESIDENTIAL STRUCTURES DURING THE 2016 MW 7.8 KAIKŌURA EARTHQUAKE, NEW ZEALAND		J.A. Mering DEFINING THE CARBON, OXYGEN, AND HYDROGEN ISOTOPIC ALTERATION FOOTPRINT IN EPITHERMAL SYSTEMS: NEW INSIGHTS FROM WAIHI AND KARANGAHAKE		H. Harvey GEOLOGY OF THE WEBER REGION, EAST COAST BASIN, NEW ZEALAND		
	1345		S. Williams APPLICATION AND COMPARISON OF NEW AND OLD GENERATION ITRAX TSUNAMI DATA: OBSERVATIONS FROM NEW ZEALAND AND SAMOA		A.S. Yates VOLCANIC, CO-SEISMIC, AND SEASONAL CHANGES DETECTED AT WHITE ISLAND (WHAKAARI) VOLCANO USING SEISMIC AMBIENT NOISE		U. Schattner DIAPIR PIERCEMENT THROUGH THE OCEAN FLOOR: NEW EVIDENCE FROM SANTOS BASIN, OFFSHORE BRAZIL	D2: Resilience to hazards Session chair: David Johnstone	S. Cronin OVERVIEW OF RESILIENCE CHALLENGE PHASE TWO *KEYNOTE*
	1400		R. Langridge RECONCILING ON- AND OFF-FAULT PALEO-SEISMIC AND PALEO-SLIP RECORDS FOR THE NORTHERN SECTION OF THE ALPINE FAULT NEAR SPRINGS JUNCTION *KEYNOTE*		A. Gusman TWO INDENTICAL TSUNAMI EARTHQUAKES IN THE KERMADEC RIDGE	C2: Zealandia: Our land + natural history Session chair: Daphne Lee / Kennedy / Fordyce	S.I. Briggs ALPINE SCHIST PETROCHRONOLOGY RECORDS PLATE BOUNDARY METAMORPHISM DURING GONDWANA BREAKUP		C.I. Massey OVERVIEW OF THE STABILITY OF LAND IN DYNAMIC ENVIRONMENTS PROJECT, WELLINGTON REGION
	1415		M. Kirilova EFFECTS OF POROSITY ON THE MECHANICAL BEHAVIOUR OF ACTIVE PLATE BOUNDARY FAULTS	B2: Volcanism + magmatism in Zealandia Session chair: Geoff Kilgour	T. Bertrand MAGMA IMAGED BY ARRAY MT DATA IN THE TAUPO VOLCANIC ZONE		J.S. Crampton WHEN DID CRETACEOUS SUBDUCTION END AT THE MARGIN OF ZEALANDIA?		S. Hornblow REES-DART DELTA AGGRADATION: THE SQUEEZE ON RIVERSIDE COMMUNITIES
	1430		C. Pearson A STUDY OF SUBSIDENCE IN CHRISTCHURCH CITY		S. Law USING BASALTS AS PROXIES FOR MAFIC MAGMA PLUMBLING SYSTEM IN THE TAUPO VOLCANIC ZONE		G. Holden A NEW UPLIFT RATE MODEL FOR SOUTHERN NORTHWEST NELSON REVEALED BY COSMOGENIC NUCLIDE DATING OF THE SEDIMENTS OF BULMER CAVERN		B. Keet THE ANTHROPOCENE IN NEW ZEALAND: HAZARDS OF UNINTENDED CONSEQUENCES OF A PANACEA
	1445		T. van Woerden SHOTOVER GORGE LANDSLIDE DAM HAZARD ASSESSMENT		I. Hamling ARE CHILLED BASALTIC MAGMAS MORE SUSCEPTIBLE TO EARTHQUAKE TRIGGERING? EVIDENCE FROM THE 2015 AMBRYM, VANUATU, DYKE INTRUSION		T. Womack RESOLVING THE CENOZOIC FOSSIL RECORD OF NEW ZEALAND: UNRAVELLING MACROEVOLUTION		W. Power AGENT-BASED MODELLING OF TSUNAMI EVACUATIONS
	1500								

	1515	afternoon tea						D3: Jurassic Crises: 7th Symposium of IGCP 632 Session chair: Hamish Campbell	B.Jiang MECHANISMS FOR EXCEPTIONAL PRESERVATION OF FOSSILS IN LAKES ASSOCIATED WITH VOLCANISM *KEYNOTE*
	1530	A1: Learning from large NZ earthquakes Session chair: Ian Hamling	F.C. Ghisetti STRUCTURAL RECONSTRUCTIONS OF THE WAIMEA-FLAXMORE FAULT SYSTEM IN THE NELSON-RICHMOND URBAN AREA: IMPLICATIONS FOR SEISMIC HAZARD	B2: Volcanism + magmatism in Zealandia Session chair: Geoff Kilgour	O.E. McLeod PERSPECTIVES ON THE STRUCTURE, VENT DISTRIBUTION AND COMPOSITION OF PIRONGIA, THE NORTH ISLAND'S LARGEST BASALTIC VOLCANO	C2: Zealandia: Our land + natural history Session chair: Daphne Lee / Liz Kennedy / Euan Fordyce	H.J.L Gard MOLLUSCAN FAUNA OF THE OLIGOCENE POMAHAKA FORMATION: TROPICAL ESTUARINE AND BRACKISH-WATER TAXA IN OTAGO		B. Sun SEVERAL FOSSIL PLANTS FROM THE MIDDLE JURASSIC OF XINJIANG, CHINA AND THEIR GEOLOGICAL SIGNIFICANCE
	1545		M.P. Hill UNDERSTANDING OUR CAPITAL'S SEDIMENTARY BASIN: DEVELOPMENT OF A 3D MODEL FOR WELLINGTON CITY USING GEOTECHNICAL, GEOLOGICAL AND GEOPHYSICAL DATA.		E. M. Bertolett THE AKAROA VOLCANIC COMPLEX: A COMPLEX MAGMATIC SYSTEM		W. Schwarzhans RECONSTRUCTION OF THE FOSSIL FISH FAUNA (TELEOSTEI) FROM NEW ZEALAND BY MEANS OF OTOLITHS		R.S. Hori TRIASSIC-JURASSIC BOUNDARY STUDIES ON MURIHIKU AND WAIPAPA TERRANES, NZ [replaces withdrawn talk: D.R. Zheng INSECT EVOLUTIONS NEAR TRIASSIC-JURASSIC BOUNDARY: EVIDENCE FROM NW CHINA]
	1600				R.J.M. Baxter COMPLEX RELATIONSHIPS AND COMPOSITIONAL VARIATION, AT THE ONSET OF DUNEDIN VOLCANISM				C. Sun EVIDENCE FOR WARM CLIMATE FROM THE LATE MIDDLE JURASSIC DAOHUGOU FLORA, CHINA
	1615 1630 1645 1700 1715	poster session A sponsor NIWA							