

## Scientific Program

Time/ Location	Presenting/First Author	Paper Title
<b>Oral Presentations</b>		
<i>Wednesday, November 29th</i>		
<i>Room 301-G053 (Dynamic Margins)</i>		
945	M. Reyners	THE ALPINE FAULT - A TECTONOPHYSICS PERSPECTIVE
1000	M. Rattenbury	THE AEROMAGNETIC EXPRESSION OF THE ALPINE FAULT: REGIONAL DISPLACEMENT AND ENTRAINMENT OF IGNEOUS ROCK
1015	T. Gray	A MODEL OF DEEP HYDROTHERMAL CIRCULATION ON A PERMEABLE ALPINE FAULT
1030	L. Adam	THE PHYSICAL PROPERTIES OF ALPINE FAULT CATACLASITES THAT DRIVE ITS ELASTIC WAVE
1045	V. Toy	CAN ALONG STRIKE VARIATIONS IN THE ALPINE FAULT GEOTHERMAL GRADIENT AFFECT DEFORMATION MECHANISMS AND FAULT STRENGTH AT THE BRITTLE-CREEP TRANSITION?
<i>Room 302-G20 (Dynamic Surface Processes)</i>		
945	C. Wilkinson	BEDROCK EROSION BY HYDRAULIC PLUCKING: EXPERIMENTS AND IMPLICATIONS
1000	G. Bann	DISPLACEMENT OF LARGE BOULDERS ACROSS COASTAL ROCK PLATFORMS SOUTH OF WOLLONGONG, NSW, BY LARGE STORM WAVES OR TSUNAMI?
1015	S. Williams	USING ITRAX ELEMENTAL DATA TO DETECT TSUNAMI PULSES IN THE LANDSCAPE: A CASE STUDY AT LITTLE PIGEON BAY, NEW ZEALAND
1030	W. de Lange	INFLUENCE OF THE EARTH TIDE ON GROUND MOVEMENTS AT OMOKOROA
1045	G. Kerr	GEOCHEMISTRY OF BIOLOGICALLY-MEDIATED GOLD MOBILISATION IN A SEMIARID CLIMATE, SOUTHERN NEW ZEALAND
<i>Room 301-G050 (Dynamic Region)</i>		
945	H. Seebeck	CRETACEOUS TO RECENT PLATE TECTONIC RECONSTRUCTIONS OF ZEALANDIA
1000	B. Hayward	DARWIN'S GEOLOGICAL OBSERVATIONS IN NEW ZEALAND, 1835
1015	I. Smith	MANTLE FLOW AND THE LATE CENOZOIC BASALT FIELDS OF NORTHERN NEW ZEALAND
1030	K. Van Wijk	SEISMIC IMAGING AND GEODYNAMIC MODELING OF THE AUCKLAND VOLCANIC FIELD
1045	L. Peti	COMPOSITE STRATIGRAPHY AND PRELIMINARY AGE-MODEL OF 80 m MAAR LAKE SEDIMENT FROM ORAKEI BASIN (AUCKLAND CITY)
<i>Morning Tea (1100-1115)</i>		
<i>Room 301-G053 (Dynamic Margins)</i>		
1115	U. Ring	DATING ALPINE SCHIST MYLONITISATION AND THE ROLE OF THE MID-CRUSTAL DECOLLEMENT
1130	L. Adam	RECONCILING EXPERIMENTAL AND STATIC-DYNAMIC NUMERICAL ESTIMATIONS OF SEISMIC ANISOTROPY IN ALPINE FAULT MYLONITES
1145	R. Schuurmans	STRUCTURAL EVOLUTION OF SOLANDER BASIN
1200	A. Tulloch	THE CAMPBELL MAFIC COMPLEX OF SOUTH ZEALANDIA
<i>Room 302-G20 (Dynamic Region)</i>		
1115	H. Bostock	DISTRIBUTION OF SURFICIAL SEDIMENTS IN THE OCEANS AROUND NEW ZEALAND

1130	S. Clar	SEISMIC IMAGING OF STATIONARY MESO-SCALE EDDIES EAST OF COOK STRAIT
1145	M. Liston	GLACIAL-INTERGLACIAL PRODUCTIVITY AT THE POLAR FRONT, SOUTHWEST PACIFIC SECTOR OF THE SOUTHERN OCEAN
1200	K. Collins	A BIT OF STRIFE: EXTINCTION RISK IN ANCIENT AND MODERN SEAS
<b>Room 301-G050 (Dynamic Region)</b>		
1115	E. Bahiru	INTEGRATING INTERPRETATION OF AEROMAGNETIC AND GEOLOGICAL DATA TO IMAGE THE SUBSURFACE GEOLOGICAL PATTERNS (DISCONTINUITIES) WITHIN THE COROMANDEL VOLCANIC ZONE (CVZ)
1130	D. Skinner	MIXED THOLEIITIC AND CALK-ALKALINE PALEOVOLCANOLOGY OF THE MERCURY BASALTS, COROMANDEL VOLCANIC ZONE (CVZ)
1145	F. Spinardi	PROGRESS ON UNDERSTANDING FAULT STRUCTURE IN THE HAMILTON BASIN
1200	M. Cave	THE MUD VOLCANOES OF TAIRAWHITI
<b>Lunch/Special Interest Group Meetings (1215-1330)</b>		
<b>Room 301-G053 (Dynamic Margins)</b>		
1330	C. Uruski	NEW ZEALAND'S GONDWANA MARGIN AND ITS NEMESIS
1345	J. Sun	ARE GARNET PYROXENITES IN KAKANUI MINERAL BRECCIA PART OF THE HIKURANGI PLATEAU?
1400	S. Davidson	MORPHOLOGY AND STRUCTURE ASSOCIATED WITH ROUGH SUBDUCTION – NORTHERN HIKURANGI, NEW ZEALAND
1415	E. Warren-smith	IMPROVED FOCAL MECHANISMS OF SEISMICITY PERTAINING TO SHALLOW SLOW SLIP IN THE NORTHERN HIKURANGI
1430	C. Boulton	FRICTIONAL PROPERTIES OF HIKURANGI PLATEAU SEDIMENTS AND APPLICATION OF THE RESULTS TO SLOW-SLIP PHENOMENA
<b>Room 302-G20 (Dynamic Surface Processes)</b>		
1330	M. Brook	ENGINEERING GEOMORPHOLOGY OF AN ACTIVE SUBURBAN LANDSLIDE: WALLIS ROAD LANDSLIDE COMPLEX, KAITI HILL, GISBORNE
1345	B. Cosgrove	MECHANISMS OF RAINFALL-INDUCED LANDSLIDING IN WELLINGTON FILL-SLOPES
1400	T. Rishworth	ASSESSMENT OF DEBRIS FLOW/FLOOD HAZARD AT TE PURU TOWNSHIP, COROMANDEL, USING TITAN-2D AND RAMMS MODELLING
1415	L. Schaefer	STABILITY ASSESSMENT OF THE CRATER LAKE OUTLET DAM AT MT. RUAPEHU VOLCANO
1430	M. Brook	ENGINEERING GEOLOGICAL ROCK MASS CLASSIFICATION OF UNDERGROUND COAL MINES: CARBOROUGH DOWNS MINE, QUEENSLAND, AUSTRALIA
<b>Room 301-G050 (Dynamic Region)</b>		
1330	G. Holden	COSMOGENIC NUCLIDE DATING OF THE SEDIMENTS OF BULMER CAVERN: IMPLICATIONS FOR THE UPLIFT HISTORY OF SOUTHERN NORTHWEST NELSON, NEW ZEALAND
1345	M. Maitra	TECTONIC EVOLUTION OF THE LATE CRETACEOUS TO EARLY PALAEOCENE GREYMOUTH BASIN, WEST COAST.
1400	C. Jewiss	WATER QUALITY AND GEOCHEMISTRY OF HISTORIC CASCADE MINE DISCHARGE ON THE DENNISTON PLATEAU, NEW ZEALAND
1415	A. Thomas	NEW INSIGHTS INTO GLACIO-LACUSTRINE SEDIMENTATION IN SOUTH WESTLAND

1430	A. Bischoff	THE INTERPLAY OF TECTONIC, VOLCANIC AND EUSTATIC FLUCTUATIONS DURING THE NEOGENE SEQUENCE OF NORTH CANTERBURY BASIN, NEW ZEALAND
1445	A. Barrier	LATE CRETACEOUS RIFTING OF THE CANTERBURY BASIN DURING ZEALANDIA INTRA-CONTINENTAL EXTENSION.

**Thursday, November 30th**

**Room 301-G053 (Dynamic Margins)**

1000	F. Ghisetti	MORPHOTECTONIC EVIDENCE OF BLIND ACTIVE FAULTS IN THE MOUTERE DEPRESSION (SOUTH ISLAND, NEW ZEALAND)
1015	T. Bushell	FAULT RUPTURE PATTERNS DURING THE Mw7.8 2016 KAIKOURA EARTHQUAKE IN THE REGION BETWEEN THE LEADER AND CHARWELL RIVERS, NORTH CANTERBURY
1030	J. Rowland	THE PAPATEA FAULT RUPTURE, NOV 14 M7.8 KAIKOURA EARTHQUAKE: WAS IT PULLED OR WAS IT PUSHED?
1045	R. Langridge	THE ROLE OF SURFACE-RUPTURING FAULTS IN THE 'WAIAUTOA MICRO-BLOCK', CLARENCE VALLEY, DURING THE MW 7.8 2016 KAIKOURA EARTHQUAKE

**Room 302-G20 (Dynamic Surface Processes)**

1000	V. Moon	MICROSTRUCTURE AND STRENGTH CHARACTERISTICS OF HALLOYSITE-RICH SENSITIVE SOILS FROM THE BAY OF PLENTY
1015	T. Robertson	POTENTIAL STABILISATION OF HALLOYSITE-RICH SENSITIVE SOILS OF THE BAY OF PLENTY BY CATION MANIPULATION
1030	B. Fox	SPELEOTHEM MAGNETISM AND HYDROCLIMATE: AN INVESTIGATION OF HYDROLOGICAL PROCESSES IN WAIPUNA CAVE, WAITOMO DISTRICT
1045	D. Sinclair	NORTHERN HEMISPHERE INFLUENCE ON THE SPCZ POSITION DURING MIS3: A HIGH RESOLUTION GLACIAL RAINFALL RECORD FROM A NIUEAN SPELEOTHEM

**Room 301-G050 (Dynamic Region)**

1000	G. Pradel	ANALYSIS OF FLUID FLOW SYSTEMS AND LINKS TO POTENTIAL GAS HYDRATE DEPOSITS IN THE NORTHERN TARANAKI BASIN
1015	S. Bull	TECTONIC CONTROLS ON SEDIMENTATION IN THE SOUTHERN TARANAKI BASIN DURING THE MIOCENE: IMPLICATIONS FOR PLATE BOUNDARY DEFORMATION
1030	M. Lawrence	ELEMENTAL VARIATIONS IDENTIFIED IN WELL POHOKURA SOUTH-1, TARANAKI BASIN, USING A PORTABLE X-RAY FLUORESCENCE DEVICE (pXRF)
1045	B. Hines	FILLING THE GREAT BLANK WEDGE OF ZEALANDIA: CRETACEOUS TO PALEOGENE PALINOSPASTIC RECONSTRUCTION OF THE EAST COAST BASIN

**Morning Tea (1100-1115)**

**Room 301-G053 (Dynamic Margins)**

1115	T. Okada	SEISMIC TOMOGRAPHY IN THE NORTHERN SOUTH ISLAND AND THE 2016 KAIKOURA EARTHQUAKE
1130	A. Ganguly	FLOW PROCESSES AND PROVENANCE OF SEDIMENT IN THE HIKURANGI CHANNEL: LINKS TO SEISMIC ACTIVITY
1145	A. Orpin	CO-SEISMIC TURBIDITIES TRIGGERED BY THE KAIKOURA EARTHQUAKE
1200	S. Nodder	ORGANIC CARBON TRANSFER TO THE DEEP OCEAN BY A CO-SEISMIC TURBIDITY CURRENT EVENT DURING THE KAIKOURA EARTHQUAKE

**Room 302-G20 (Dynamic Surface Processes)**

1115	G. Bann	TUFFS, DYKES, FLOWS, FOSSILS, DROPSTONES AND GLENDONITES; EARLY VOLCANISM AND SEDIMENTATION IN THE MID-PERMIAN SOUTHERN SYDNEY BASIN
1130	B. Simons	MULTI-PARAMETER STUDIES OF A PERSISTENTLY ACTIVE VOLCANO, YASUR, VANUATU
1145	E. Brosch	FIRST VIEWS INSIDE PYROCLASTIC SURGES REVEAL NEW MECHANISMS BEHIND THEIR THERMAL AND DYNAMIC PRESSURE HAZARD POTENTIALS
1200	G. Lerner	UNCOVERING LONG-RUNOUT PYROCLASTIC FLOWS USING PALAEOMAGNETISM AT MT TARANAKI
<b>Room 301-G050 (Dynamic Region)</b>		
1115	C. Hollis	THE VERY PECULIAR CONDITIONS THAT CREATED THE WAIPAWA FORMATION, ~59 MILLION YEARS AGO
1130	A. Griffin	INSIGHTS INTO SUBSURFACE STRESS AND STRUCTURE IN THE SOUTHERN EAST COAST BASIN, NEW ZEALAND
1145	J. Palmer	TIMING OF SEDIMENTATION AND DEFORMATION IN PLIO-PLEISTOCENE WHANGANUI BASIN, NEW ZEALAND
1200	M. Sagar	DETRITAL ZIRCON EVIDENCE FOR THE PROVENANCE OF CRETACEOUS-PALEOGENE SANDSTONES IN THE GREAT SOUTH BASIN
<b>Lunch/Special Interest Group Meetings (1215-1330)</b>		
<b>Room 301-G053 (Dynamic Margins)</b>		
1330	G. Watson	VARIATIONS IN FAULT-ZONE ARCHITECTURE IN A WELL-BEDDED SEQUENCE
1345	R. Sibson	FAULT FRICTION IN THE SEISMOGENIC UPPER CRUST
1400	S. Woelz	HYDRO-ACOUSTIC AND SHALLOW SEISMIC REFLECTION DATA FROM THE CANTERBURY SHELF – THE MARCAN PROJECT
1415	J. Townend	WHAT DO THE MAGNITUDE-FREQUENCY CHARACTERISTICS OF EARTHQUAKES DETECTED BY CROSS-CORRELATION TELL US ABOUT FAULT SOURCE
1430	M. Savage	SEISMIC ANISOTROPY CHANGES ASSOCIATED WITH THE 2016 KUMAMOTO EARTHQUAKE, JAPAN
1445	C. Chamberlain	DETECTING REAL EARTHQUAKES USING IMAGINARY EARTHQUAKES: MATCHED-FILTER DETECTION WITHOUT A-PRIORI INFORMATION
<b>Room 302-G20 (Dynamic Surface Processes)</b>		
1330	M. Brenna	THREE KINGS OR A WHOLE DYNASTY? A COMPLEX VOLCANO IN THE HEART OF AUCKLAND
1345	M. Prentice	VOLCANISM AT MAUNGATAUTARI COMPOSITE CONE VOLCANO, CENTRAL WAIKATO
1400	G. Leonard	THE LIFE AND TIMES OF CENTRAL TVZ: 15 YEARS OF MAPPING AND GEOCHRONOLOGY ILLUMINATE EARTH'S MOST PRODUCTIVE SILICIC
1415	M. Voloschina	DETAILED TEPHROSTRATIGRAPHY AS A TOOL TO DEVELOP A MULTI-HAZARD MODEL FOR MT. RUAPEHU, NEW ZEALAND
1430	D. Lowe	RE-DATING TUHUA TEPHRA, A KEY MID-HOLOCENE MARKER BED IN NORTHERN NEW ZEALAND, USING AN ISOCHRON-INFORMED BAYESIAN AGE MODELLING APPROACH
1445	R. Loame	RECONNAISSANCE AND DETECTION OF CRYPTOTEPHRAS IN ~20,000-YR-OLD LAKE SEDIMENTS, WAIKATO REGION, USING CT SCANNING
<b>Room 301-G050 (Dynamic Region)</b>		

1330	R. Newnham	TWO-STEP HUMAN-ENVIRONMENTAL IMPACT PREHISTORY FOR AUCKLAND, LINKED TO LATE HOLOCENE CLIMATE CHANGE
1345	D. Lee	A 70 M.Y. LONG RECORD OF ARAUCARIAN FORESTS IN ZEALANDIA: WOOD, LEAVES, POLLEN, AMBER AND INCLUSIONS
1400	J. Prebble	TERRESTRIAL CLIMATE EVOLUTION IN THE SOUTHWEST PACIFIC OVER THE PAST 30 MILLION YEARS
1415	E. Tidey	SUBMARINE GEOMORPHOLOGY IN THE SUB-ANTARCTIC AUCKLAND ISLANDS
1430	O. Truax	A RECORD OF HOLOCENE PALEOCLIMATE EVOLUTION FROM ROBERTSON BAY, VICTORIA LAND, ANTARCTICA
1445	A. Martin	A SPATTER-RICH PYROCLASTIC DENSITY CURRENT DEPOSIT FROM A NEOGENE VOLCANO, MASON SPUR, ANTARCTICA, SUGGESTS SIMULTANEOUS MULTI-VENT ERUPTION

**Friday, December 1st**

**Room 302-G20 (Dynamic Fluids)**

1045	I. Wallis	CAUSAL LINKS BETWEEN GEOLOGY AND THE SUBSURFACE GEOMETRY OF A GEOTHERMAL RESERVOIR
1100	A. Hamilton	VARIATIONS WITHIN THE FOSSILISED SILICEOUS SINTERS OF THE COROMANDEL VOLCANIC ZONE
1115	K. Campbell	HOT SPRINGS AND THE SEARCH FOR EARLY LIFE ON EARTH AND MARS
1130	E. Scanlan	GEOCHEMISTRY AND PARAGENESIS OF SCHEELITE AT GLENORCHY OTAGO, NEW ZEALAND
1145	E. Duran	PHYSICAL ROCK PROPERTIES AT IN-SITU CONDITIONS OF PYROCLASTIC ROCKS FROM NGATAMARIKI GEOTHERMAL FIELD, NEW ZEALAND.
1200	J. Riffault	KINEMATIC PERMEABILITY INVERSION USING INDUCED SEISMICITY APPLIED TO THE PARALANA EGS STIMULATION

**Room 301-G053 (Dynamic Earth and Society)**

1045	J. Rae	ADAPTIVE COMMUNICATION FOR A DYNAMIC LANDSCAPE
1100	M.. Crawford	HOW RISK MODELING FOR TSUNAMI INUNDATION INFORMS LOCAL GOVERNMENT NATURAL HAZARD MANAGEMENT POLICIES AND PROCEDURES
1115	C. Mueller	UNCERTAINTIES IN REGIONAL TSUNAMI FORECASTING DUE TO UNKNOWN DISTRIBUTION OF EARTHQUAKE SLIP
1130	D. Dempsey	USING A WRONG MODEL TO OBTAIN USEFUL INSIGHTS: FORECASTING INDUCED SEISMICITY IN THE
1145	J. Lindsay	TEN YEARS OF DETERMINING VOLCANIC RISK IN AUCKLAND
1200	S. Tsang	THERMAL GRADIENTS IN SUBSTRATES BENEATH LAVA FLOWS: A LABORATORY APPROACH

**Room 301-G050 (Dynamic Region)**

1045	B. Davy	THE CRUSTAL STRUCTURE OF THE EASTERN CHATHAM RISE REGION- RESULTS OF THE 2016 GEOPHYSICAL SURVEY SO246 BY THE R/V SONNE
1100	P. Oluwunmi	NUMERICAL MODELLING OF GAS HYDRATE DISSOCIATION DURING THE GLACIAL-INTER-GLACIAL CYCLES, CASE STUDY THE CHATHAM RISE, NEW
1115	N. Mortimer	CHATHAM RISE, CHATHAM SCHIST
1130	S. Piva	THE CENOMANIAN–TURONIAN $\delta^{13}C$ RECORD OF THE CHATHAM ISLANDS: IMPLICATIONS FOR TERRESTRIAL STABLE CARBON CHEMOSTRATIGRAPHY

1145	I. Geary	PLIOCENE MACRO- AND MICROFOSSIL PLANTS AND FUNGI OF AUCKLAND
1200	M. Vanner	CENOZOIC FOSSIL WOOD FROM SOUTHERN ZEALANDIA
<b>Lunch/Special Interest Group Meetings (1215-1330)</b>		
<b>Room 302-G20 (Dynamic Fluids)</b>		
1330	A. Yates	MONITORING TEMPORAL VELOCITY CHANGES AT WHITE ISLAND VOLCANO USING SEISMIC AMBIENT NOISE
1345	M. Rowe	CHARACTERIZING AMORPHOUS MATERIALS BY X-RAY DIFFRACTION: APPLICATIONS ON EARTH AND MARS
1400	E. Smid	SEARCHING FOR SUBDUCTION: INFLUENCES ON MAGMA CHEMISTRY IN THE AUCKLAND VOLCANIC FIELD, NEW ZEALAND
1415	C. Lormand	PRE- AND SYN-ERUPTIVE PROCESSES VISUALIZED THROUGH SEMI-AUTOMATIC CRYSTAL SIZE DISTRIBUTION ANALYSIS OF MICROLITES FROM TONGARIRO VOLCANIC CENTRE TEPHRAS, NEW ZEALAND
1430	L. Pure	TIME-COMPOSITION TRENDS IN A COMPREHENSIVE SUITE OF LAVAS FROM TONGARIRO VOLCANO
<b>Room 301-G053 (Dynamic Earth and Society)</b>		
1330	J. McHale	THE IMPACT OF CASCADING HAZARDS ON RURAL LAND USE- A HURUNUI-KAIKŌURA EARTHQUAKE SEQUENCE CASE STUDY
1345	K. Nemeth	THE UNDERUTILIZED VOLCANIC GEOHERITAGE VALUES OF UPOLU, WESTERN SAMOA- CHALLENGES TO DEVELOP SUSTAINABLE GEOTOURISM PROGRAMS INCORPORATING POLYNESIAN HERITAGE
1400	B. Nemeth	VOLCANIC GEOSITE SELECTION AND THEIR GEOHERITAGE VALUE ASSESSMENT: METHODOLOGY
1415	J. Thomson	GEOTRIPS WEBSITE – AN UPDATE
1430	P. Ashwell	TRADITIONAL AND VIRTUAL FIELDTRIPS AS PREPARATION FOR FURTHER GEOSCIENCE LEARNING
1445	R. Brand	SOCIAL RESPONSIBILITY FOR GEOSCIENCE IN THE UNCONVENTIONAL WORLD
<b>Room 301-G050 (Dynamic Region)</b>		
1330	H. Gard	OTOLITHS, TEETH AND SCALES REVEAL DIVERSE FISH COMMUNITIES IN LATE OLIGOCENE ESTUARINE TO DEEP-WATER PALEOENVIRONMENTS IN SOUTHERN ZEALANDIA
1345	D. MacFarlan	TEREBRATULIDE BRACHIOPODS FROM THE EARLY JURASSIC OF ZEALANDIA
1400	E. Fordyce	A TOOTHLESS SUCTION FEEDING DOLPHIN FROM THE OTEKAIKE LIMESTONE (WAITAKIAN STAGE, LATEST OLIGOCENE), HAKATARAMEA VALLEY
1415	A. Coste	WHAT ROLE FOR TUSKS IN AN OLIGOCENE DOLPHIN (LATE OLIGOCENE, AWAMOKO VALLEY)?
1430	K. Matts	ANCIENT PENGUINS OF NEW ZEALAND: HOW MANY SPECIES OF PLATYDYPTES?
1445	M. Richards	A JUMBLE OF HOBBITS AND GIANTS: PENGUINS AND OTHER VERTEBRATES FROM LATE OLIGOCENE ROCKY SHORELINE, COSY DELL, SOUTHLAND, NEW ZEALAND

## Poster Presentations

**Wednesday, November 29th (1500-1700)**

### Dynamic Margins

1	C. Boulton	FLUID-ROCK INTERACTIONS AND FAULT-ZONE WEAKENING ALONG THE ACTIVE MAI'IU LOW-ANGLE NORMAL FAULT, WOODLARK RIFT, PAPUA NEW GUINEA
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2	A. Ismayanto	GEOLOGICAL STRESS EVOLUTION OF WEST JAVA, INDONESIA
3	G. Ganefianto	AUCKLAND VOLCANIC FIELD: SEISMIC TRAVEL-TIME TOMOGRAPHY WITH FAST MARCHING METHOD APPROACH
4	J. Hoffmann	SEISMIC INVESTIGATIONS OF FLUID FLOW RELATED STRUCTURES ON THE SOUTH CANTERBURY SLOPE
5	H. Zal	TEMPORAL VARIATIONS IN SEISMIC ANISOTROPY DURING THE 2014 GISBORNE SSE, NEW ZEALAND
6	J. Lang	SPELEOTHEM RECORDS OF NEW ZEALAND'S EARTHQUAKE HISTORY
7	K. Lang	DETRITAL THERMOCHRONOLOGY IN THE SOUTHERN ALPS: NEW INTERPRETATIONS OF SEDIMENT DYNAMICS AND EXHUMATION HISTORY
8	D. Lindsay	20 YEARS OF CAMPAIGN AND CONTINUOUS GPS ACROSS THE CENTRAL SOUTHERN ALPS – TIME-SERIES AND MODELLING
9	T. Sato	SPATIO-TEMPORAL REGIONAL STRESS FIELD ASSOCIATED WITH THE MW 7.8 KAIKOURA EARTHQUAKE BY STRESS TENSOR INVERSION IN THE NORTHERN SOUTH ISLAND
10	M. Mckeown	UNDERSTANDING THE PHYSICAL SEDIMENTOLOGY OF THE MADDEN CONTINENTAL SLOPE DISTRIBUTARY
11	V. Pullan	GEOCHEMISTRY AND STRUCTURE OF BACK-ARC BASINS IN THE HAVRE TROUGH, SOUTHWEST PACIFIC
12	J. Simpson	EXPLORING THE SUBDUCTED PACIFIC PLATE WITH LEAKY MODES
13	S. Suresh	SPELEOTHEM RECORDS OF VOLCANIC ERUPTIONS; ERUPTION DYNAMICS OF SURTSEYAN VOLCANOES; STUDY CASES FROM BLACK POINT AND PAHVANT BUTTE, WESTERN USA
14	A. Verolino	
15	R. Wysoczanski	VOLCANISM IN THE OFFSHORE TAUPO VOLCANIC ZONE
16	C. Yong	THE STRAIN SEGMENTATION AT THE SUMATRA SUBDUCTION ZONE BASED ON GPS-DERIVED INTERSEISMIC COUPLING
17	J. Mawson	SUBMARINE ERUPTIVE PROCESSES IN THE BROOK STREET TERRANE
18	A. Zemeny	EXPLORING THE GEOCHEMICAL SIGNATURES OF GROWTH AND COLLAPSE OF TARANAKI VOLCANO
<b>Dynamic Surface Processes</b>		
19	P. Finlay	THE GEOLOGICAL ORIGIN OF THE CHOCOLATE HILLS OF BOHOL
20	M. Brenna	RAPID MAGMA ASCENT FOLLOWING COMPLEX STORAGE AT PUPUKE MAAR, AUCKLAND VOLCANIC FIELD
21	M. Ferguson	USING PYROCLASTIC COOLING HISTORIES TO UNDERSTAND DYNAMIC ERUPTIONS: CASE STUDIES FROM THE AUCKLAND VOLCANIC FIELD
22	H. Handley	MULTIPLE VENT ERUPTIONS AT MONOGENETIC VOLCANOES: WAITOMOKIA VOLCANO, AUCKLAND VOLCANIC FIELD, NEW ZEALAND
23	M. Heinrich	DRIVERS, DYNAMICS AND HAZARDS OF THE LARGEST ERUPTIONS OF MT. TONGARIRO
24	R. Loame	CT AND MICRO-CT SCANNING OF LIQUIFIED TEPHRA DEPOSITS IN ~20,000-YR-OLD LAKE SEDIMENTS, WAIKATO REGION
25	D. Lowe	ARE NUMERICAL AND STATISTICAL METHODS THE PANACEA FOR CORRELATING TEPHRAS OR CRYPTOTEPHRAS USING COMPOSITIONAL DATA?
26	O. McLeod	STRATIGRAPHIC ARCHITECTURE AND VOLCANIC PROCESSES OF THE PLIO-PLIOCENE PIRONGIA VOLCANIC SUCCESSION, WAIKATO.

27	A. Todde	THE EPISODIC EXPLOSIVE PHASE OF THE AD 1314 KAHAROA ERUPTION (TARAWERA VOLCANO, NEW ZEALAND): NEW INSIGHTS FROM TEPHRA DEPOSITS
28	L. Peti	FINGERPRINTING RHYOLITIC TEPHRA LAYERS WITH NON-DESTRUCTIVE RAPID $\mu$ -XRF CORE SCANNING
29	S. Mills	INSIGHTS FROM PROXIMAL DEPOSITS OF THE 1995-1996 SUBPLINIAN ERUPTIONS OF MT. RUAPEHU
30	C. Murphy	EARLY MASS FLOW SEDIMENTATION PROCESSES IN THREE MAAR CRATERS, HINDON MAAR COMPLEX, OTAGO
31	S. Banks	SEDIMENTARY PROCESSES OF THE COOK STRAIGHT CANYON SYSTEM
32	J. Robinson	DEVELOPING SEDIMENT FINGERPRINTING TECHNIQUES FOR THE WHANGANUI CATCHMENT, NEW ZEALAND.
33	Z. Rana	SURFACE HARDNESS AND LITHOLOGICAL PROPERTIES OF WAITEMATA GROUP EAST COAST BAYS FORMATION, AUCKLAND
34	W. Conley	MORPHOTECTONICS AS A LANDSCAPE TEMPLATE FOR ASSESSING SEDIMENT TRANSFERS AND FLOOD VULNERABILITY
35	A. Martin	A GEOCHEMICAL BASELINE SOIL SURVEY OVER OTAGO-NORTHERN SOUTHLAND
36	R. Garrill	COMPARISON OF GEOTECHNICAL PROPERTIES OF TAUPO VOLCANIC ZONE TEPHRA AND SURROUNDING SEDIMENTS OF THE TAURANGA GROUP IN THE AUCKLAND AREA
37	A. Palma	ENGINEERING GEOLOGICAL PROPERTIES AND SLOPE INSTABILITY OF TAURANGA GROUP SEDIMENTS IN THE BEACHLANDS LANDSLIDE ZONE (BLZ), AUCKLAND
38	A. Ram	ENGINEERING GEOMORPHOLOGICAL CHARACTERIZATION OF SLOPE FAILURES INDUCED BY TROPICAL CYCLONE WINSTON IN VITI LEVU, FIJI
39	E. Forbes	COMPARISON OF DIVERSION WELL SUBSTRATES FOR THE TREATMENT OF ACID MINE DRAINAGE, BELLVUE MINE, WEST COAST, NEW ZEALAND
40	L. Green	PRELIMINARY INVESTIGATION INTO LIQUEFACTION OF THE MANUKAU LOWLANDS, AUCKLAND, USING SETTLE3D MODELLING
41	J. Ensing	ESTIMATING BOREHOLE SEISMOMETER ORIENTATION USING AMBIENT NOISE FOR AMBIENT NOISE TOMOGRAPHY OF THE AUCKLAND VOLCANIC FIELD USING MULTI-COMPONENT DATA
42	N. Hyland-brook	PRELIMINARY INSIGHTS INTO THE FAULT GEOMETRIES AND KINEMATICS ALONG THE SOUTH LEADER FAULT SURFACE RUPTURES DURING THE KAIKOURA EARTHQUAKE
43	M. Hill	URBAN MAPPING IN SOUTH AUCKLAND

**Thursday, November 30th (1500-1700)**

**Dynamic Fluids**

1	R. Baxter	EVOLUTION OF THE DUNEDIN VOLCANIC COMPLEX: INSIGHTS FROM ALLANS BEACH
2	E. Giacalone	AN UNUSUALLY COARSE BASALTIC LAVA WITH EXTREMELY COARSE SEGREGATION STRUCTURES, SWINBURN, WAIPIATA VOLCANIC FIELD, OTAGO, NEW ZEALAND.
3	K. Mauriohooho	MAGMA INCEPTION AND THE BIRTH OF A
4	C. Wilson	MAFIC INPUTS INTO THE RHYOLITIC MAGMATIC SYSTEM OF THE 2.08 Ma HUCKLEBERRY RIDGE TUFF, YELLOWSTONE



5	J. Wu	MINERAL CHEMISTRY OF PRE-CALDERA MAGMA SYSTEMS IN JEMEZ MOUNTAINS VOLCANIC FIELD, NEW MEXICO, USA
6	R. Morgenstern	USING A MINERAL SYSTEMS APPROACH TO MAP RARE EARTH ELEMENT DISTRIBUTION IN IGNEOUS INTRUSIONS OF THE SOUTH ISLAND, NEW ZEALAND
7	M. Sas	HIGH RESOLUTION SIMS ANALYSIS OF <sup>87</sup> SR/ <sup>86</sup> SR IN PLAGIOCLASE: METHOD DEVELOPMENT AND INITIAL APPLICATION
8	G. Zellmer	INSIGHTS INTO THE PETROGENESIS OF TAUPO VOLCANIC ZONE BASALTS FROM U SERIES ISOTOPE ANALYSIS OF WHOLE ROCKS, GROUNDMASSES, AND MINERALS
9	Y. Yagolnitzer	THE PIGROOT DUALITY: AN EXPERIMENTAL ANALYSIS OF THE PIGROOT PHONOLITE
10	E. Swallow	A MAGMA CARTA: HOW THE HUCKLEBERRY RIDGE TUFF (YELLOWSTONE) REWRITES THE POSSIBILITIES FOR LARGE SILICIC MAGMATIC SYSTEMS
11	T. Watson	EVOLUTION OF MAGMATIC VOLATILES DURING DRILLING INTO A MAGMA BODY, KRAFLA ICELAND
12	G. Kilgour	VOLATILE EXCHANGE DURING MAGMA MIXING: INVESTIGATING THE VERY SHORT TIMESCALES BEFORE ERUPTION
13	B. Li	A VIOLENT PHREATOMAGMATIC ERUPTION THAT FORMED A MAAR IN AN INTRA-MOUNTAIN BASIN AT ARXAN-CHAIHE VOLCANIC FIELD, INNER MONGOLIA, CHINA
14	L. Carson	STRUCTURE AND ALTERATION IN THE BROKEN HILLS DISTRICT, COROMANDEL PENINSULA
15	Y. Heled	VAPOUR PHASE ALTERATION AND COOLING OF COMPOUND IGNIMBRITE SHEETS: THE SILICA STORY
16	J. Clarke	EXPLORING LABORATORY SCALE, FLUID INDUCED VOLCANIC EARTHQUAKES
17	C. Hopp	MICROSEISMIC RESPONSE TO DEEP INJECTION AT NGATAMARIKI GEOTHERMAL FIELD, NEW ZEALAND
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18	M. Crawford	RISK MODELLING AS A TOOL TO SUPPORT NATURAL HAZARD RISK MANAGEMENT IN NEW ZEALAND LOCAL GOVERNMENT
19	S. Gates	MODELLING BALLISTIC HAZARD AT NEW ZEALAND'S MOST VISITED ACTIVE VOLCANOES; WHITE ISLAND AND RED CRATER, TONGARIRO
20	T. Hurst	USING MULTIPLE ATMOSPHERIC MODELS TO ASSESS AND DISPLAY UNCERTAINTIES IN VOLCANIC ASH FORECASTS FROM HYSPLIT
21	M. Davis	ENGINEERING ROCK MASS CLASSIFICATION OF THE EAST COAST BAYS FORMATION, AUCKLAND
22	T. Rishworth	THE GEOLOGICAL AND STRUCTURAL CONSTRAINTS ON THE PRODUCTION OF AGGREGATE, AT MATAKANA QUARRY, RODNEY
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23	N. Bates	SEDIMENTOLOGY & MICROPALAEONTOLOGY OF A MID MIOCENE MAAR LAKE SEDIMENT
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25	C. Bevins	A RECORD OF NATURAL AND HUMAN-INDUCED ENVIRONMENTAL CHANGE FROM PUNAHAU (LAKE HOROWHENUA)
26	G. Evans	LAKE KANONO: INVESTIGATING CLIMATE OSCILLATIONS USING HIGH RESOLUTION WIND AND PRECIPITATION ITRAX PROXIES

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41	G. Frontin-Rollet	GEOCHEMICAL CHARACTERISATION OF OFFSHORE NEW ZEALAND PHOSPHORITES
42	M. Nakagawa	TEPHRASTRATIGRAPHY AND TEPHROCHRONOLOGY OF THE SHIKOTSU-TOYA VOLCANIC FIELD, HOKKAIDO,
43	B. Waterson	VARIABLE PARTIAL MELTING AS A CONTROL ON THE FORMATION OF ANOMALOUS BASALTIC ACHONDRITES
44	A. Murch	UNUSUAL FLUID BEHAVIOR OF A SILICIC MELT DURING FRAGMENTATION IN A DEEP SUBAQUEOUS ERUPTION, HAVRE SEAMOUNT 2012