

| MONDAY 25th NOVEMBER | | |
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| 8.30 | | Opening ceremony |
| 9.00 | C2 | PLENARY PROF. JIM COLE, UC 170 YEARS OF TAUPO VOLCANIC ZONE VOLCANOLOGY |
| C1 | | 7.1 Alpine Fault Research |
| 9.30 | <u>T. STERN</u> , C. BOESE, J. TOWNEND, E. SMITH, D. OKAYA & A. WECH | KEYNOTE: EVIDENCE FOR A MANTLE DISCONTINUITY BENEATH MT COOK BASED ON CRUSTAL STRUCTURE, GRAVITY ANOMALIES AND SEISMICITY |
| 9.45 | <u>T. A. LITTLE</u> , V. TOY, B. GILLAM, D.J. PRIOR, S. KIDDER, A. CROSS, S. ELLIS, O. AL'BOT | FOLIATION FANNING IN THE HANGINGWALL OF THE ALPINE FAULT, CENTRAL SOUTHERN ALPS |
| 10.00 | <u>U. COCHRAN</u> , K. CLARK, R. LANGRIDGE, P. VILLAMOR, J. HOWARTH, M. VANDERGOES & K. BERRYMAN | REFINING THE TIMING OF THE LAST SIX SURFACE-RUPTURING EARTHQUAKES ON THE SOUTH-WESTLAND SECTION OF THE ALPINE FAULT |
| 10.15 | <u>T.R. ROBINSON</u> , T.M. WILSON, T.R.H. DAVIES, C. ORCHISTON & J. THOMPSON | CIVIL DEFENCE EXERCISE TE RIPAHAPA? A REALISTIC SCENARIO FOR A RUPTURE OF THE ALPINE FAULT |
| C2 | | 5.1 Physical Volcanology and Hazards |
| 9.30 | <u>G.S. LEONARD</u> , D.B. TOWNSEND, C. CONWAY, S. EAVES, J. GAMBLE, C.J.N. WILSON, A. CALVERT, A. MACKINTOSH, K. NORTON, J. COWLYN | A NEW DETAILED GLACIO-ERUPTIVE HISTORY FOR TONGARIRO NATIONAL PARK |
| 9.45 | <u>J.D. COWLYN</u> , B.M. KENNEDY, D.M. GRAVLEY, S.J. CRONIN, N. PARDO, G.S. LEONARD & D. TOWNSEND | PYROCLASTIC DENSITY CURRENT DEPOSITS AT A GLACIATED VOLCANO; MOUNT RUAPEHU, NEW ZEALAND |
| 10.00 | <u>B. SIMONS</u> , A. PITTARI & R.M. BRIGGS | DEPOSIT CHARACTERISTICS AND EXPLOSIVE ERUPTION PROCESSES OF BLUE LAKE CRATER, TONGARIRO |
| 10.15 | <u>H.J. GODFREY</u> , A. SHELLEY, M.K. SAVAGE | SEARCH FOR TEMPORAL CHANGES IN SHEAR-WAVE SPLITTING AND VP/VS ASSOCIATED WITH THE 2012 TE MAARI ERUPTIONS |
| C3 | | 4.1 Quaternary Records, Geochronology and the SHAPE Project |
| 9.30 | <u>D.J.A. BARRELL</u> | THE STATUS AND FUTURE OF QUATERNARY STRATIGRAPHY IN NEW ZEALAND |
| 9.45 | <u>H. BOSTOCK</u> , M. KIENAST, E. GALBRAITH, B. HAYWARD, H. NEIL, A. SABAA & G. SCOTT | CHANGES IN NITRATE UTILISATION AND PRODUCTIVITY ACROSS THE SUBTROPICAL FRONT SINCE THE LAST GLACIAL |
| 10.00 | <u>P. ALMOND</u> & S. COVEY-CRUMP, M. JONES, D. KAUFMAN & U. RIESER | AMINO ACID, OSL AND RADIOCARBON DATING OF LOESS IN NORTH CANTERBURY, NEW ZEALAND |
| 10.15 | <u>A. HOGG</u> , J. PALMER, C. TURNEY, J. SOUTHON, P. FENWICK, G. BOSWIJK & <u>R. JONES</u> | YOUNGER DRYAS ATMOSPHERIC RADIOCARBON VARIATIONS AS ARCHIVED IN NEW ZEALAND KAURI |
| 10.30 | | MORNING TEA |
| C1 | | 7.1 Alpine Fault Research |
| 11.00 | <u>G.P. DE PASCALE</u> & R.M. LANGRIDGE | LIDAR REVALS PALEOSEISMIC SITES AND RECENT STRIKE-SLIP AND THRUST FAULTING ALONG THE CENTRAL ALPINE FAULT |
| 11.15 | <u>C. BOULTON</u> , V.G. TOY, J. TOWNEND & R. SUTHERLAND | RHEOLOGICAL IMPLICATIONS OF FLUID-ROCK INTERACTION REVEALED IN FAULT ROCK RECOVERED DURING THE ALPINE FAULT - DEEP FAULT DRILLING PROJECT (DFDP-1) |
| 11.30 | <u>S.L. YEO</u> & V. TOY | GRAIN SIZE DISTRIBUTION OF ALPINE FAULT CATACLASITES |
| C1 | | 7.2 Subduction Margins |
| 11.45 | <u>C. MUELLER</u> , W. POWER & J. RISTAU | IMPLICATIONS OF RUPTURE COMPLEXITY FOR FORECASTING OF REGIONAL TSUNAMI IN NEW ZEALAND |
| 12.00 | D.R.A. FRASER, <u>A.R. GORMAN</u> , I.A. PECHER, C.J. CRUTCHLEY & S.A. HENRYS | USING HIGH-DENSITY AUTOMATED VELOCITY ANALYSIS TO AID INTERPRETATIONS OF GAS AND GAS HYDRATE ACCUMULATIONS IN THE PEGASUS BASIN, EAST OF COOK STRAIT |
| C1 | | 7.3 Tectonic Deformation in NZ & SW Pacific |
| 12.15 | <u>W. POWER</u> , X. WANG, C. HOLDEN & K. CLARK | KEYNOTE: THE 2009 SOUTH PACIFIC TSUNAMI REVISITED |
| C2 | | 5.1 Physical Volcanology and Hazards |
| 11.00 | M. BRINK, <u>A. PITTARI</u> & R.M. BRIGGS | PYROCLASTIC FLOW DYNAMICS ASSOCIATED WITH RECENTLY-EXPOSED UPRIGHT TREE STUMPS WITHIN THE 232 AD TAUPO IGNIMBRITE, WAIPA VALLEY, SOUTHEAST OF TE KUITI |
| 11.15 | <u>M.A.W. WILLCOCK</u> , R. WEINBERG, G.M. BARGOSSO, G. GASPAROTTO, R.A.F. CAS & G. GIORDANO | THE LARGE VOLUME (> 1290KM ³), PERMIAN, RHYOLITIC, ORA FORMATION, NORTHERN ITALY: NEITHER MONOTONOUS NOR STRONGLY ZONED |
| 11.30 | <u>P.A. ASHWELL</u> , B.M. KENNEDY & J.W. COLE | BUBBLE COLLAPSE AND ERUPTION DYNAMICS AT RUAWAHIA DOME, TARAWERA |
| 11.45 | <u>H.CATTELL</u> , J.COLE & C.OZE | TRANSPORT AND DEPOSITIONAL SETTINGS OF THE HUKA GROUP, WAIRAKEI-TAUHARA GEOTHERMAL |

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| C2 | | 5.2 Magma Systems |
| 12.00 | C. DEERING, R. TURNBULL, O. BACHMANN & J. COLE | KEYNOTE: MAGMATIC UNDERPINNINGS OF THE OKATAINA VOLCANIC CENTRE |
| 12.15 | D.M. GRAVLEY, C.D. DEERING, F. BEGUE & B.M. KENNEDY | IS THE CENTRAL TAUPO VOLCANIC ZONE A SINGLE LARGE CALDERA? |
| C3 | | 4.1 Quaternary Records, Geochronology and the SHAPE Project |
| 11.00 | A.J.H. CLEMENT, C.R. SLOSS & P.L. WHITEHOUSE | HOLOCENE RELATIVE SEA-LEVEL RECONSTRUCTIONS FOR REGIONS WITHIN THE NEW ZEALAND ARCHIPELAGO |
| 11.15 | J. MAXWELL, I. BARBER, M. VANDERGOES & J. HOWARTH | REKOHU RESEARCH PROJECT AND PRE-HISTORIC EAST-POLYNESIAN ADAPTATION TO CLIMATE. |
| C3 | | 4.2 Palaeogene and Neogene Palaeoclimate |
| 11.30 | T. W. HORTON | THE 13C-EXCESS: A NEW DUAL-ELEMENT STABLE ISOTOPIIC APPROACH FOR PALAEO-ENVIRONMENTAL RECONSTRUCTIONS USING LAKE CARBONATES |
| 11.45 | T. REICHELTL, E.M. KENNEDY, J.G. CONRAN & D.E. LEE | USING FLORAL PROXIES TO RECONSTRUCT LATE EOCENE TO LATE MIOCENE TERRESTRIAL PALAEOCLIMATES IN SOUTHERN NEW ZEALAND |
| C3 | | 4.3 Ocean Discoveries: NZ participation in the IODP |
| 12.00 | C.J. HOLLIS | NEW ZEALAND'S PARTICIPATION IN IODP: RETROSPECT AND PROSPECT |
| 12.15 | V. TOY & EXP. 343 & 343T SCIENTISTS | IODP EXPEDITIONS 343 AND 343T, THE JAPAN TRENCH RAPID DRILLING PROJECT (J-FAST) YIELD NEW INSIGHTS INTO THE MECHANICS AND STRUCTURE OF SUBDUCTION THRUST FAULTS |
| 12.30 | | LUNCH |
| C1 | | 7.3 Tectonic Deformation in NZ & SW Pacific |
| 1.30 | S. WILLIAMS, T. DAVIES, T. WILSON & J. COLE | THE NORTHERN TONGAN SUBDUCTION-ARC AND MULTI-GEOHAZARD RISK IN THE SAMOAN REGION: HONOURING THE CONTRIBUTIONS OF JOHN BEAVAN TO OUR PRESENT UNDERSTANDING |
| 1.45 | F. GHISETTI & R.H. SIBSON | 3D RESTORATIONS OF THE MIOCENE-PLIOCENE SYNOROGENIC BASINS WEST OF THE ALPINE FAULT: STRUCTURAL CONTROL OF BASEMENT DEFORMATION AND COMPRESSIONAL INVERSION |
| 2.00 | P.M. BARNES & F.C. GHISETTI | STRUCTURE, LATE QUATERNARY SLIP RATE, AND EARTHQUAKE POTENTIAL OF MARINE REVERSE FAULTS ALONG THE NORTH WESTLAND DEFORMATION FRONT, WEST OF THE ALPINE FAULT |
| 2.15 | S.T. MCCOLL, T.A. STAHL & S.J. COOK | SURVEYING AND DATING LAKE WAKATIPU STRANGLINES TO ASSESS FOR TECTONIC AND GLACIAL ISOSTATIC UPLIFT. |
| 2.30 | N. KHAJAVI, M. QUIGLEY & R.M. LANGRIDGE | DEFORMATION ZONE OF THE HURUNUI SEGMENT OF THE HOPE FAULT, NEW ZEALAND, REVEALED FROM LIDAR |
| 2.45 | A. NICOL & R. VAN DISSEN | DISPLACEMENT RATES ON THE WAIRAU FAULT; IMPLICATIONS FOR PLATE BOUNDARY DEFORMATION IN THE NORTHERN SOUTH ISLAND |
| C2 | | 5.2 Magma Systems |
| 1.30 | K.J. CHAMBERLAIN, D.J. MORGAN & C.J.N. WILSON | DIFFUSION PROFILES IN SANDINE, ORTHOPYROXENE AND QUARTZ: TIMESCALES FOR PRIMING OF THE BISHOP TUFF ERUPTION, CALIFORNIA |
| 1.45 | J. HIESS, T. IRELAND, M. RATTENBURY, K. YI & J. WOODHEAD | ZIRCON AND MONAZITE U-TH-PB, REE, O AND HF SIGNATURES IN WESTERN PROVINCE GNEISSES |
| 2.00 | J.C. KEEMAN & J.M. PALIN | DETERMINING THE PROVENANCE OF THE MURIHIKU TERRANE USING IGNEOUS CLASTS FROM JURASSIC AND TRIASSIC CONGLOMERATES, CATLINS COAST, NEW ZEALAND |
| 2.15 | A.P. MARTIN, A.F. COOPER & R.C. PRICE | INCREASED MANTLE HEAT FLOW WITH ON-GOING RIFTING OF THE WEST ANTARCTIC RIFT SYSTEM INFERRED FROM CHARACTERISATION OF PLAGIOCLASE PERIDOTITE |
| C2 | | 5.3 Geothermal Processes and Resources |
| 2.30 | W. HEISE, T.G. CALDWELL, G.J. HILL, N.G. PALMER & T.A. BERTRAND | IMAGING THE DEEP HEAT SOURCE OF THE ROTORUA GEOTHERMAL FIELD |
| 2.45 | C. MASSIOT, D.D. MCNAMARA, B. LEWIS, A. NICOL & J. TOWNEND | FRACTURE CHARACTERISATION IN GEOTHERMAL RESERVOIRS USING ACOUSTIC BOREHOLE IMAGES AND CORES |
| C3 | | 4.3 Ocean Discoveries: NZ Participation in the IODP |
| 1.30 | G.H. BROWNE, M.P. CRUNDWELL, K.M. MARSAGLIA & EXP. 317 SCIENTISTS | NEW PALEONTOLOGICAL AND SEDIMENTOLOGICAL RESULTS FROM CANTERBURY BASIN IODP EXPEDITION 317, SITE U1352 |
| 1.45 | C.J. HOLLIS & IODP EXP. 342 SCIENTISTS | OCEAN CHANGE THROUGH THE PALEOCENE-EOCENE TRANSITION: INSIGHTS FROM COMPARISONS BETWEEN THE SW PACIFIC AND NW ATLANTIC (IODP EXPEDITION 342) |
| 2.00 | R. MCKAY & IODP EXP. 318 SCIENCE TEAM | EAST ANTARCTIC CLIMATE AND ICE SHEET EVOLUTION: RESULTS FROM IODP EXPEDITION 318 |
| 2.15 | C. RIESSELMAN, H. SCHER, H. DOWSETT & M. ROBINSON | DEEP ATLANTIC CIRCULATION DURING THE WARM PIOCENE: A NEW RECONSTRUCTION FROM THE IODP ARCHIVES |
| 2.30 | C. MOY & IODP EXP. 341 SCIENCE PARTY | SPATIAL AND TEMPORAL PATTERNS OF PLEISTOCENE BIOGENIC SEDIMENT ACCUMULATION IN THE GULF OF ALASKA |
| 2.45 | C. LARSON & IODP EXP. 341 SCIENCE PARTY | EDUCATION AND OUTREACH ON EXPEDITION 341-SOUTHERN ALASKA MARGIN |
| 3.00 | | AFTERNOON TEA |
| C1 | | 7.3 Tectonic Deformation in NZ & SW Pacific |
| 3.30 | M. REYNERS | KEYNOTE: THE TECTONIC CONTEXT OF THE 2013 COOK STRAIT EARTHQUAKES |

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| 3.45 | <u>D. RHOADES</u> | PRECURSORY SIGNALS AND FORECASTS OF THE COOK STRAIT AND LAKE GRASSMERE EARTHQUAKES |
| 4.00 | <u>E. D'ANASTASIO</u> , L. WALLACE, N. PALMER, S. ELLIS, D. CAMPBELL, S. HREINSDOTTIR, N. FOURNIER & I. HAMLING | THE 2013 COOK STRAIT EARTHQUAKES (NEW ZEALAND): A GPS PERSPECTIVE |
| C2 | | 5.3 Geothermal Processes and Resources |
| 3.30 | <u>J. DAVIDSON</u> , D. GRAVLEY, A. NICOL, J. FAIRLEY | RADON ACTIVITY AROUND ACTIVE FAULTS IN A GEOTHERMAL ENVIRONMENT |
| 3.45 | <u>L. ADAM</u> , K. VAN WIJK, T. OTHEIM & M. BATZLE | CHANGES IN ELASTIC WAVE VELOCITY AND ROCK MICROSTRUCTURE DUE TO BASALT-CO ₂ -WATER REACTIONS |
| 4.00 | | COLE CLOSING |
| C3 | | 8.2 Palaeontology and Palaeoenvironments |
| 3.30 | <u>E.M. KENNEDY</u> , J.I. RAINE, E.M. CROUCH, T. REICHGELT & R.A. SPICER | LATE CRETACEOUS TO EARLY EOCENE FLORAS AND PALEOCLIMATE FROM SOUTH ISLAND, NEW ZEALAND |
| 3.45 | <u>J. CONRAN</u> , J. BANNISTER, & D. LEE | FOSSIL FRUITS AND SEEDS FROM THE EARLY MIOCENE FOULDEN MAAR, NEW ZEALAND |
| 4.00 | <u>U. KAULFUSS</u> , D.E. LEE & A.R. SCHMIDT | TRAPPED IN AMBER? RECONSTRUCTING FOREST ECOSYSTEM BIODIVERSITY IN CENOZOIC NEW ZEALAND |
| 4.15 to 5.30 | | POSTERS – covering sessions 4, 5 & 8 See accompanying poster schedule Posters to be displayed from 8.30am & removed following the session |

TUESDAY 26th NOVEMBER

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| 9.00 | C2 | PLENARY PROF. GEOFFREY PLUMLEE USGS - EARTH MATERIALS & HUMAN HEALTH |
| C1 | | 7.3 Tectonic Deformation in NZ & SW Pacific |
| 9.30 | <u>S. ELLIS</u> , C. WILLIAMS, M. REYNERS, D. EBERHART-PHILLIPS, J. BEAVAN & L. WALLACE | KEYNOTE: VARIATIONS IN MID-CRUSTAL DENSITY BENEATH NORTHERN CANTERBURY: THE EFFECT ON STRESSES AND POSTSEISMIC STRAIN-RATES |
| 9.45 | <u>K.S. HAYWARD</u> , S.F. COX & M. SALMON | STATIC COULOMB STRESS MODELLING IN A COMPLEX EARTHQUAKE SEQUENCE: CAN IT PROVIDE USEFUL INFORMATION FOR EARTHQUAKE RISK ANALYSIS? |
| 10.00 | <u>C. PEARSON</u> , N. PALMER, C. WILLIAMS, J. BEAVAN, L. WALLACE & P. DENYS | POST SEISMIC DEFORMATION AFTER THE 2010-2012 CHRISTCHURCH EARTHQUAKE SEQUENCE |
| 10.15 | <u>C. HOLDEN</u> , T. GODED & A. KAISER | BROADBAND GROUND MOTION MODELLING OF A LARGE ALPINE FAULT EARTHQUAKE |
| C2 | | 5.3 Geothermal Processes and Resources |
| 9.30 | <u>A. K. WELLNITZ</u> , J.M. SCOTT, D. CRAW, M.J. PALIN & C. STIRLING | GEOCHEMISTRY OF CARBONATE ALTERATION RELATED TO MIOCENE GOLD DEPOSITS AND THE ALPINE DIKE SWARM IN THE SOUTHERN ALPS OF NEW ZEALAND |
| 9.45 | <u>N. WIN</u> & C. OZE | THE FORMATION OF FE-RICH SUBSURFACE CRUSTS ON WHITE ISLAND, NEW ZEALAND |
| 10.00 | <u>C. RISSMANN</u> , M. LEYBOURNE, C. BENN & B. CHRISTENSON | THE ORIGIN OF SOLUTES WITHIN THE GROUNDWATERS OF A HIGH ANDEAN AQUIFER |
| C3 | | 8.2 Palaeontology and Palaeoenvironments |
| 9.30 | <u>J.S. CRAMPTON</u> , R.A. COOPER, P.M. SADLER & M. FREAN | IS EXTINCTION RATE BIMODAL? VERY HIGH RESOLUTION SURVIVORSHIP ANALYSIS OF THE GRAPTOLOID CLADE |
| 9.45 | <u>J.G. PREBBLE</u> , J.I. RAINE, D.M. MILDENHALL & E.M. KENNEDY | NEW TOOLS FOR CENOZOIC POLLEN ANALYSIS ? INTERACTIVE KEY AND RANGE CHARTS |
| C3 | | 8.1 Marine Sedimentology |
| 10.00 | <u>S. NODDER</u> , C. PILDITCH & I. KLAUCKE | ORGANIC ENRICHMENT & SEDIMENTATION IN DEEP-SEA POCKMARKS & DEPRESSIONS, SOUTH CHATHAM RISE |
| 10.15 | <u>J.I.T.HILLMAN</u> , A.R.GORMAN & I.A.PECHER | INVESTIGATING SUBMARINE CANYONS AND SEAFLOOR DEPRESSIONS ON THE OTAGO SHELF USING 3D SEISMIC DATA AND HIGH RESOLUTION MULTIBEAM BATHYMETRY |
| 10.30 | | MORNING TEA |
| C1 | | 7.3 Tectonic Deformation in NZ & SW Pacific |
| 11.00 | <u>L. WALLACE</u> , S. BANNISTER, I. HAMLING, B. FRY, Y. ITO & K. OBARA | KEYNOTE: LARGE SLOW SLIP EVENTS AT THE HIKURANGI MARGIN IN 2013? DID SLOW SLIP TRIGGER THE COOK STRAIT EARTHQUAKE SEQUENCE? |
| 11.15 | <u>I. HAMLING</u> & L. WALLACE | INDUCED SLIP ALONG THE WELLINGTON AND RUAHINE FAULTS DURING THE 2004 MANAWATU SLOW SLIP EVENT: INSIGHTS FROM THE JOINT INVERSION OF INSAR AND GPS DATA |
| 11.30 | <u>J. DIMECH</u> , T. STERN, S. LAMB, H. HORGAN & S. HENRYS | SEISMIC REFLECTION FABRIC OF THE LOWER CRUST IN THE VICINITY OF KAPITI SLOW SLIP EVENTS BENEATH THE WANGANUI BASIN |

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| 11.45 | <u>C.A. WILLIAMS</u> , L.M. WALLACE & R.J. BEAVAN | REVISED ESTIMATES OF HIKURANGI SLOW SLIP USING FEM-GENERATED GREEN'S FUNCTIONS |
| 12.00 | <u>R. SUTHERLAND</u> , F. BACHE & V. STAGPOOLE | OVERVIEW OF THE TASMAN FRONTIER, OFFSHORE NW NEW ZEALAND |
| 12.15 | <u>S. BULL</u> , M. FOHRMANN, S. HEMMING-SYKES, C. REILLY, J. BAUR, H. ZHU, M. HILL, K. KROEGER, P. KING & A. NICOL | DEPOSITIONAL AND TECTONIC HISTORY OF THE KUPE REGION IN THE SOUTHERN TARANAKI BASIN |
| C2 | | 1.1 Geoscience Communication and Education |
| 11.00 | <u>S.J. HAMPTON</u> & D.G. GRAVLEY | BANKS PENINSULA: NEW ZEALAND'S FIRST GEOPARK? INVESTIGATIONS AND GEO-EDUCATION RESEARCH INITIATIVES |
| 11.15 | <u>J. DOHANEY</u> , E. BROGT, T. WILSON & B. KENNEDY | TEACHING GEOSCIENCE WITH SIMULATION: SCENARIO-BASED ROLE-PLAYS |
| 11.30 | H. I. JACK | REALITIES OF SCIENCE AND RISK COMMUNICATION: SOME EXPERIENCES FROM THE 2010 DARFIELD AND 2011 CHRISTCHURCH EARTHQUAKE RESPONSES |
| 11.45 | <u>M. HEMMINGSEN</u> & K. SWANSON | TE PUMANAWA - A NEW SCIENCE EDUCATION INITIATIVE FOCUSED ON CURRICULUM LEVELS 3 & 4 |
| 12.00 | <u>B. KENNEDY</u> , E. BROGT, A. JOLLEY & WILSON. | SHAKING UP AN INTRODUCTORY GEOHAZARDS COURSE |
| 12.15 | <u>J.G. BEGG</u> , M.S. RATTENBURY, J.M. LEE, D.J.A. BARRELL & K.E. JONES | URBAN GEOLOGICAL MAPS: OUTPUTS AND DELIVERY |
| C3 | | 8.1 Marine Sedimentology |
| 11.00 | <u>J. MOUNTJOY</u> , P. BARNES, C. PAULL, J. MITCHELL, A. PALLENTIN & L. CHAUMILLON | SUBMARINE CANYONS FEEDING THE HIKURANGI CHANNEL |
| 11.15 | <u>J. CANETE</u> , M. DICKSON & L. STRACHAN | FAN-DELTA PROGRADATION FOLLOWING THE 2008 ERUPTION OF CHAIT'N VOLCANO, CHILE |
| 11.30 | <u>I. ANELL</u> , I. MIDTKANDAL & A. BRAATHEN | NEW INSIGHT INTO POSSIBLE GEOMETRICAL RELATIONSHIPS IN PROGRADING CLINOFORM SUCCESSIONS: FROM ONE SIDE OF THE GLOBE TO OTHER |
| C3 | | 3.2 Coastal Environments and Seismology |
| 11.45 | <u>B.W. HAYWARD</u> , A.T. SABAA, K.J. CLARK & U.A. COCHRAN | TAPHONOMICALLY-ADJUSTED FORAMINIFERAL PALEOELEVATION ESTIMATES PROVIDE IMPROVED HOLOCENE EARTHQUAKE RECORDS FROM NEW ZEALAND SALT MARSHES |
| 12.00 | <u>C.M. REID</u> , U. COCHRAN, K. CLARK, I. MARSDEN, G. VETTORETTI, B. ANSELL & S. FREEMAN. | THE AVON-HEATHCOTE ESTUARY AS A RECORDER OF COSEISMIC VERTICAL DEFORMATION |
| 12.15 | G.C. SCHMAUDER, <u>J.N. LOUIE</u> , S. PULLAMMANAPPALLIL, K. GRAY, K. MCBEAN, A. MCBEAN, & G.M. KENT | SIMULATION OF SEISMIC-WAVE PROPAGATION THROUGH THE LAKE TAHOE BASIN, CALIFORNIA-NEVADA: A SCENARIO APPROACH TO PROBABILISTIC SHAKING HAZARD |
| 12.30 | | LUNCH |
| C1 | | 7.3 Tectonic Deformation in NZ & SW Pacific |
| 1.30 | <u>E.A. CAIRNS</u> , T.A. LITTLE, G.M. TURNER, L.M. WALLACE & S. ELLIS | PALEOMAGNETIC CONSTRAINTS ON VERTICAL-AXIS ROTATIONS IN THE ACTIVE WOODLARK RIFT, SE PAPUA NEW GUINEA |
| 1.45 | <u>J.F. IRONS</u> | VOLCANIC ACTIVITY ON TERRANE BOUNDARIES |
| 2.00 | <u>J. GRIEVE</u> , D. PRIOR & J. SCOTT | KINEMATICS OF THE GREBE SHEAR ZONE, FIORDLAND, NEW ZEALAND. |
| 2.15 | <u>N. L. MOERHUIS</u> & J.M. SCOTT | TIMING AND NATURE OF FLUID FLOW AND MINERALIZATION OF ONEKAKA SCHIST IN NW NELSON, NEW ZEALAND |
| 2.30 | <u>C. WEBSTER</u> & V. TOY | GRAIN SIZE ANALYSIS OF CATACLASITES WITHIN THE OTAGO SCHIST |
| C2 | | 1.1 Geoscience Communication and Education |
| 1.30 | G.D.VALLENDER | GEOSCIENCE LEARNING AND CONCEPTUAL RECONSTRUCTION THEORY |
| 1.45 | P. SOMMERVILLE | EARTH SCIENCE VIRTUAL FIELD TRIPS |
| 2.00 | <u>K. VAN WIJK</u> & L. ADAM | SEISMOMETERS FOR NEW ZEALAND SCHOOLS |
| C2 | | 8.3 Oligo-Miocene Palaeogeography |
| 2.30 | P.J.J. KAMP, A. TRIPATHI & <u>C.S. NELSON</u> | OLIGOCENE PALEO GEOGRAPHY (TE KUITI GROUP) OF CENTRAL-WESTERN NORTH ISLAND, NEW ZEALAND |
| 2.45 | <u>D.P. STROGEN</u> , K.J. BLAND, A. NICOL & P.R. KING | PALEO GEOGRAPHY OF THE TARANAKI BASIN REGION DURING THE LATEST EOCENE TO EARLY MIOCENE AND IMPLICATIONS FOR THE 'TOTAL DROWNING' OF ZEALANDIA |
| C3 | | 3.1 Palaeoseismology Record in Canterbury |
| 1.30 | N. LITCHFIELD, <u>R. VAN DISSEN</u> , S. HORNBLow, M. QUIGLEY & G. ARCHIBALD | DETAILED ANALYSIS OF GREENDALE FAULT GROUND SURFACE RUPTURE DISPLACEMENTS: HOW MUCH VARIATION CAN YOU GET? |
| 1.45 | <u>S. HORNBLow</u> , M. QUIGLEY, A. NICOL & R. VAN DISSEN | PALEOSEISMOLOGY OF THE 2010 MW 7.1 DARFIELD (CANTERBURY) EARTHQUAKE SOURCE, GREENDALE FAULT |
| 2.00 | <u>B.H. MACKAY</u> & M.C. QUIGLEY | TECTONIC GEOMORPHOLOGY OF BANKS PENINSULA FROM COSMOGENIC NUCLIDE EXPOSURE DATING |

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| 2.15 | <u>S. BASTIN</u> , K. BASSETT, & M. QUIGLEY | THE PALEOSEISMIC HISTORY OF KAIAPOI, NORTH CANTERBURY FROM PALEOLIQUEFACTION INVESTIGATION |
| C3 | | 3.4 General Tectonics and Geodynamics |
| 2.30 | <u>M. SAVAGE</u> , R. HOLT, E. SYRACUSE, J. TOWNEND, F.-C. LIN & C. THURBER | SEISMICITY, VELOCITY STRUCTURE AND STRESS FROM BROADBAND SEISMIC RECORDINGS AFTER THE 4 SEPTEMBER 2010 M7.1 DARFIELD EARTHQUAKE |
| 2.45 | <u>R.H. SIBSON</u> | CONJUGATE STRIKE-SLIP FAULTING DURING THE 2010-2012 CANTERBURY EARTHQUAKE SEQUENCE: BRITTLE VERSUS DUCTILE CONTROL? |
| 3.00 | | AFTERNOON TEA |
| C2 | | 8.3 Oligo-Miocene Palaeogeography |
| 3.30 | <u>N.K. RIORDAN</u> , J.D. BRADSHAW, C.M. REID & K.N. BASSETT | RECONSIDERING BASIN GEOMETRIES OF THE WEST COAST: THE INFLUENCE OF THE PAPAROA CORE COMPLEX ON OLIGOCENE RIFT SYSTEMS |
| 3.45 | <u>D. LEE</u> , J. LINDQVIST, A. BEU, D. MILDENHALL & L. KENNEDY | LATE OLIGOCENE PALEOGEOGRAPHY OF SOUTHERN ZEALANDIA: SEDIMENTOLOGICAL AND PALEONTOLOGICAL EVIDENCE FOR FORESTED LAND, ESTUARIES, ROCKY AND SANDY SHORES |
| 4.00 | <u>P.J.J. KAMP</u> , K.A. VINCENT, K.R. LUCAS & M.J.S. TAYLER | KEYNOTE: PMAP SERIES: A NEW PALEOENVIRONMENT AND PALEOGEOGRAPHY MAP SET FOR UNDERSTANDING THE NEW ZEALAND CENOZOIC |
| C3 | | 3.4 General Tectonics and Geodynamics |
| 3.30 | <u>H. SEEBECK</u> , A. NICOL, J.J. WALSH, C. CHILDS, R.D. BEETHAM, J. PETTINGA | FLUID FLOW IN FAULT ZONES FROM AN ACTIVE RIFT |
| 3.45 | <u>T. KIM</u> , M. CHO, S.-Y. YANG, & K. YI | DEFORMATION TEMPERATURES OF QUARTZOFELDSPATHIC GNEISSES BASED ON MICROSTRUCTURES VS. MINERAL ASSEMBLAGES |
| 4.00 | <u>T. CZERTOWICZ</u> , J. M. SCOTT, J.M. PALIN | TECTONO-METAMORPHIC EVOLUTION OF THE ANITA SHEAR ZONE, NW FIORDLAND |
| 4.15 to 5.30 | | POSTERS – covering sessions 2, 3 & 7 and additional topics See accompanying poster schedule Posters to be displayed from 8.30am & removed following the session |
| 7.00 | | CONFERENCE DINNER |

WEDNESDAY 27TH NOVEMBER

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| 9.00 | C2 | PLENARY DR CHRIS OZE UC – NEAR SURFACE KINETICS AND WEATHERING |
| C2 | | 6.0 Environmental Geochemistry |
| 9.45 | <u>J. WEBSTER-BROWN</u> , I. HAWES, A. JUNGBLUT, S. WOOD & H. CHRISTENSON | GLACIER CRYOCONITE GEOCHEMISTRY AND ITS EFFECT ON INTERRED BIOTA |
| 10.00 | <u>A.M. SMITH</u> | CALCIUM CARBONATE: WORLD'S BEST BIOMINERAL? |
| 10.15 | <u>M. VAUGHAN</u> , K. LILLY, D.J. PRIOR, M. SEIDEMANN, R. EASINGWOOD, A. GORMAN, P. LANGHORNE | EXAMINING CRYSTAL FABRICS IN FINE-GRAINED ICE: CRYO-EBSD AND SHEAR DEFORMATION EXPERIMENTS |
| C3 | | 3.4 General Tectonics and Geodynamics |
| 9.30 | <u>M. RATTENBURY</u> | AN AEROMAGNETIC-CONSTRAINED SUB-QUATERNARY GEOLOGICAL MAP OF THE WEST COAST REGION |
| 9.45 | <u>C. LITTLE</u> & THE GEONET TEAM. | GETTING THE MOST FROM GEONET |
| 10.00 | <u>H. TAKIGUCHI</u> , T. NATUSCH, S. GULYAEV, Y. FUKUDA | APPROACHING GEOSCIENCES OF NEW ZEALAND FROM THE CONTINUOUS GRAVITY MEASUREMENT |
| 10.15 | <u>C. REILLY</u> , A. NICOL, J. WALSH | THE IMPORTANCE OF FAULT SIZE FOR SUBSEQUENT INVERSION, SOUTHERN TARANAKI BASIN, NEW ZEALAND |
| 10.30 | | MORNING TEA |
| C1 | | 2.2 Slope Instability and Management |
| 11.00 | T. OSZVALD | GEOLOGIC HAZARDS IN HUNGARY |
| 11.15 | <u>V.L. ZIMMER</u> , N. SITAR, B.D. COLLINS, G.M. STOCK. | MONITORING ROCK FALLS IN YOSEMITE VALLEY USING SEISMIC AND INFRASOUND |
| 11.30 | <u>L. VICK</u> , J. GLOVER, T. DAVIES | CHRISTCHURCH FIELD DATA FOR ROCKFALL MODEL CALIBRATION |
| 11.45 | M. MCSAVENEY, <u>R. VAN DISSEN</u> , D. TOWNSEND, T.A. LITTLE, G. HANCOX, N. PERRIN, S. MISRA, G. ARCHIBALD, G. DELLOW, & C. MASSEY | LANDSLIDES GENERATED BY THE M _w 6.5 JULY 21, 2013, COOK STRAIT AND MW 6.6 AUGUST 16, 2013, LAKE GRASSMERE EARTHQUAKES, NEW ZEALAND: A RECONNAISSANCE REPORT |
| 12.00 | <u>J. CAREY</u> , M. MCSAVENEY, C. MASSEY, F. DELLA PASQUA | CAUSES AND MECHANISMS OF MASS MOVEMENTS ON LOESS SLOPES: A CASE STUDY FROM THE CHRISTCHURCH PORT HILLS, CANTERBURY |

ORAL PRESENTATIONS

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| 12.15 | A. VALENTINE, J. SEALE, S. JONES & C. PURDIE | GEOTECHNICAL INVESTIGATIONS FOR CHRISTCHURCH INFRASTRUCTURE REBUILD |
| C2 | | 6.0 Environmental Geochemistry |
| 11.00 | R. WEST, D. TRUMM, D. NOBES & J. POPE | TRIALLING PASSIVE REMEDIATION SYSTEMS FOR TREATMENT OF SEVERE AMD: A CASE STUDY FROM BELLVUE MINE, WEST COAST, SOUTH ISLAND, NEW ZEALAND |
| 11.15 | G. KERR, J. DRUZBICKA, K.LILLY & D.CRAW | JAROSITE SOLID SOLUTION IN ARSENIC-RICH MINE WASTES, MACRAES GOLD MINE, NEW ZEALAND. |
| 11.30 | A.S WATERS, J.G. WEBSTER-BROWN & I. HAWES | PHOSPHORUS DYNAMICS ASSOCIATED WITH ALGAL BLOOMS IN TE ROTO O WAIREWA/LAKE FORSYTH, CANTERBURY, NEW ZEALAND |
| 11.45 | C.M. GIONFRIDDO, M.B. STOTT, D.P. KRABBENHOFT & J.W. MOREAU | MICROBIALY-MEDIATED MERCURY TRANSFORMATIONS AT HOT SPRINGS AND MINE SITES IN THE NORTH ISLAND, NEW ZEALAND |
| 12.00 | H. CHRISTENSON, J. WEBSTER-BROWN & I. HAWES | PHOSPHORUS PARTITIONING IN MELT-WATER PONDS IN VICTORIA LAND, ANTARCTICA: INSIGHTS INTO THE P CYCLE |
| 12.15 | K. HUG, M.B. STOTT, W. MAHER & J.W. MOREAU | MICROBIAL ARSENIC RESISTANCE MECHANISMS IN CHAMPAGNE POOL, NEW ZEALAND: AN ANALOG |
| C3 | | 3.4 General Tectonics and Geodynamics |
| 11.00 | M. STIRLING, D. ROOD & D. BARRELL | USING FRAGILE GEOLOGIC FEATURES TO PLACE CONSTRAINTS ON LONG TERM SEISMIC HAZARD |
| 11.15 | G. O'BRIEN, J. TOWNEND, S. COX, E. SMITH | THE HYDRAULIC RESPONSE OF SCHIST LANDSLIDES TO REGIONAL EARTHQUAKES IN CENTRAL OTAGO |
| 11.30 | J.D. HOWARTH, S.J. FITZSIMONS, P. UPTON & P.O. KOONS | LARGE EARTHQUAKES AS A DRIVER OF EPISODIC SEDIMENT FLUX FROM AN ACTIVE MOUNTAIN BELT |
| 11.45 | S. FITZSIMONS, J. HOWARTH, P. UPTON & P. KOONS | HIGH MAGNITUDE, LOW FREQUENCY RAINFALL EVENTS DRIVE LANDSCAPE DEVELOPMENT IN THE SOUTHERN ALPS |
| 12.00 | P. UPTON, P.O. KOONS, J.D. HOWARTH & S.J. FITZSIMONS | INTEGRATING MATERIAL RESPONSE AND GEOMORPHIC PROCESSES USING NUMERICAL MODELLING |
| 12.15 | B DUFFY, M.C. QUIGLEY, K. BASSETT & L. STRACHAN | TIMING AND PROVENANCE OF SYNOROGENIC SEDIMENTATION DURING ARC-CONTINENT COLLISION AND EXTRUSION IN THE TIMOR SECTOR OF THE BANDA ARC |
| 12.30 | | LUNCH |
| C1 | | 2.3 Submarine Landslide Induced Tsunami |
| 1.45 | E.M. LANE, J.J. MOUNTJOY & W.L. POWER | PROBABILISTIC MODELLING OF SUBMARINE-LANDSLIDE-GENERATED TSUNAMIS IN COOK STRAIT |
| C1 | | 2.1 Liquefaction Induced Ground Instability |
| 2.00 | S.C. COX, S. VAN BALLEGOOY, J.G. BEGG & H.J. RUTTER | INTER-ANNUAL, SEASONAL AND EARTHQUAKE-INDUCED FLUCTUATIONS IN WATER TABLE ELEVATION , WITH IMPLICATIONS FOR STUDIES OF LIQUEFACTION IN CHRISTCHURCH |
| 2.15 | A. GULLEY, N.D. WARD, S. COX, J. KAIPIO | ANALYSIS AND MODELLING OF BOREHOLE PIEZOMETRIC RESPONSES DUE TO CANTERBURY EARTHQUAKES |
| 2.30 | K. JONES, J. BEGG, R. LANE & T. MCLENNAN | BENEATH CHRISTCHURCH IN 3D: WAYS OF PRESENTING NEW INFORMATION UPON WHICH TO BASE PLANNING AND ENGINEERING SOLUTIONS |
| C2 | | 8.4 Coal and Hydrocarbon Resources |
| 1.45 | H. BAI, I.A. PECHER & L. ADAM | POSSIBLE CAUSES OF WEAK BSRS ON THE HIKURANGI MARGIN |
| 2.00 | T.R. SAHOO | SEISMIC CHARACTERISTICS AND PALEO-DEPOSITIONAL ENVIRONMENTS OF THE MID TO LATE CRETACEOUS SECTION IN THE GREAT SOUTH BASIN |
| 2.15 | D.G. TITHERIDGE | DRILLING INDUCED FRACTURES IN COAL: STRESS AND CLEAT AZIMUTHS, AND PERMEABILITY |
| 2.30 | G.T. VENTURA, B.D. FIELD & R. SYKES | HIGH-RESOLUTION BULK PYROLYSIS OF MID CRETACEOUS TO EOCENE ROCKS IN THE RERE-1 WELL, EAST COAST BASIN: EVALUATION OF SOURCE ROCK POTENTIAL AND MATURITY |
| C3 | | 3.4 General Tectonics and Geodynamics |
| 1.30 | T. ADAMSON & J. BRADSHAW | DIKE ORIENTATION AND STRUCTURE IN DUN MOUNTAIN OPHIOLITE, BRYNEIRA RANGE, OTAGO. |
| 1.45 | B. DAVY | KEYNOTE: CONVERGENT MARGINS OF THE NEW ZEALAND EASTERN PROVINCE |
| C3 | | 3.3 IGCP 592:Accretionary Belts of the SW Pacific Central Asia |
| 2.00 | GLENN. R.A. | KEYNOTE: A NEW ACCRETIONARY OROGEN MODEL FOR THE TASMANIDES OF EASTERN AUSTRALIA |
| 2.15 | N. MORTIMER, M.S. RATTENBURY, P.R. KING | A CAMBRIAN TO HOLOCENE STRATIGRAPHIC FRAMEWORK FOR ZEALANDIA |
| 2.30 | H. CAMPBELL, C. ADAMS, G. BROWNE, N. MORTIMER, I. RAINE & T. SAHOO | OROGENIC CLUES ALONG THE CHATHAM RISE MARGIN OF ZEALANDIA |
| 2.45 | C2 | CLOSING |