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| **Session A - 9:30-11:30, Room 101 Erskine Building** | | |  | |
| **Host Department** | **Project Leader** | **Project Title** | **Student's First Name** | **Student's Surname** |
| Accountancy & Information System | Annick Masselot | Surrogacy and parenthood | Cameron | Melville |
| English | Christina Stachurski | Christchurch Theatre Project (2012-15) & Compilation of Material for a History of the Court Theatre | *Sionainn* | Byrnes |
| History | Lyndon Fraser; Jane Buckingham | An Oral History of Twenty-First Century Irish Migration to Christchurch | Sam | *Fitzgerald* |
|  | Jane Buckingham; Kate Dewes | Pacifist women, men and their families in Canterbury | Daniel | *Bartlett* |
| Law | Debra Wilson | Rethinking Surrogacy Laws: An analysis of the legal,ethical and public policy justifications for legislation relating to the practice of surrogacy | Catriona | Mackay |
|  | Rhonda Powell; Debra Wilson | Rethinking Surrogacy Laws: Surrogacy  and the right to  respect for  private and family  life in European Court of  Human Rights jurisprudence | Martha | Ceballos |
|  | Liz Toomey | Legal frameworks for multiple ownership on a single land title in Western Europe | Laura | Austin |
|  | Jeremy Finn | Criminal offending in and near the residential developments surrounding Christchurch 2011-2015 | Marusa | Sagadin |
|  | Sacha Mueller | The constitutional impact of the Canterbury Earthquake Recovery Act 2011 and its future | Liam | Macfarland |
| Photography; School of Fine Arts | Tim Veling; Bridgit Anderson & Glenn Busch | Place in Time public outreach research project | Mitchell | Bright |
| Political Science | Bronwyn Hayward | Christchurch: A Child Friendly City? A study of the measures, actions and relationships required to support a chid friendly city recovery in Christchurch | Kendall | Lattin |
| Christchurch City Council | Kath Jamieson | Data collection and analysis for a range of Christchurch City Council research programmes | Alice | Ansley |
|  | Kath Jamieson | Data collection and analysis for a range of Christchurch City Council research programmes | Minique | Butters |
|  | Kath Jamieson | Data collection and analysis for a range of Christchurch City Council research programmes | Aleisha | Glasson |
|  | Kath Jamieson | Data collection and analysis for a range of Christchurch City Council research programmes | Matthew | Lattin |
|  | Kath Jamieson | Data collection and analysis for a range of Christchurch City Council research programmes | Quinn | Liam |

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| **Session B - 9:30-11:30, Room 111 Erskine Building; CHAIR – Professor John Dalrymple-Alford** | | |  | |
| **Host Department** | **Project Leader** | **Project Title** | **First Name** | **Surname** |
| Geography | Simon Kingham; Paul Beere | GIS and health research | Allan | *Schori* |
|  | Malcolm Campbell; Simon Kingham | The future of cycling: here and now, there and then. Peddle Power! | Jessie | Wiki |
|  | Malcolm Campbell; Gun Lee | Mobile Android Applications for Health use. | Errin | Rowan |
| Physics & Astronomy | Karen Pollard | Telescope Pointing and Public Outreach at the Mt John Observatory | Byron | Engler |
|  | Karen Pollard | Studying Pulsating Stars at the Mt John Observatory | Harshil | Gulati |
| Health Science | Ray Kirk; Kate Reid | Wellbeing of independently living community dwelling older people | Andrew | Halim |
|  | Ray Kirk; Kate Reid | Wellbeing of independently living community dwelling older people | Wade | Stent |
|  | Kathleen Liberty; Maureen Allen | Literature Review: Interventions to Improve emotional self-regulation in children with high arousal levels associated with experiencing the Christchurch earthquakes in early childhood | Lee | Hooper |
| Mathematics & Statistics | Michael Plank | Competitor Location Prediction for Real-time Satellite Tracking of Outdoor Sport Events | Grace | Davison |
|  | Jennifer Brown | Development of an image analysis tool to identify and enumerate mussel spat. | Alison | Faulls |
|  | Raazesh Sainudiin | Big data for crime prevention | Dillon | George |
|  | Alex James; Jennyfer Cruz | Correlating indices of mouse abundance | Bridget | *Armstrong* |
| (with Statistics NZ) | Richard Penny | Interactive exploratory data analysis on the web. | Carina | Zheng |
| CDHB / Maths & Stats / Health Sciences / High Performance Computing | Hamish Jamieson (CDHB); Tim Anderson (CDHB): Philip Schluter (Health Sciences); Jennifer Brown (Maths & Stats); Tim David (HPC) | Big Data: Finding predictors of poor outcomes in dementia. | Annabelle | Bos |
|  | Hamish Jamieson (CDHB); Tim Anderson (CDHB): Philip Schluter (Health Sciences); Jennifer Brown (Maths & Stats); Tim David (HPC) | Big Data: Predicting hip fractures and serious injuries. | Losana | Latu |
|  | Hamish Jamieson (CDHB); Tim Anderson (CDHB): Philip Schluter (Health Sciences); Jennifer Brown (Maths & Stats); Tim David (HPC) | Big Data: Identifying the benefits from Advanced Care Planning. | Philip | Petrie |
| Research & Innovation | Seamus Tredinnick; Brent Higgins | Quality management systems internship at a veterinary implant start-up. | Christopher | Lines |
| ESR | Michael Taylor; Richard Green | Analysis of high speed video-imges of blood drop interactions with textile surfaces | Carr | Chris |
| Human Interface Technology Lab (HITLab) | Gun Lee | Gesture based Interaction for Immersive 4D Home Entertainment | Ben | Mitchell |

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| **Session C - 12:00-2:00, Room 101 Erskine Building. CHAIR: Professor Maggie-lee Huckabee** | | |  | |
| **Host Department** | **Project Leader** | **Project Title** | **First Name** | **Surname** |
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| Communication Disorders & ROSE Centre for Stroke Rehabilitation | Maggie-Lee Huckabee | The Test of Masticating and Swallowing Solids (TOMASS):  Validating behavioural observations of swallowing behaviour to objective instrumental assessment. | Paige | Thomas |
| Aotahi/Māori and Indigenous Studies | Garrick Cooper; Jack Heinemann | Epigenetics and Colonisation | Jess | *MacLean* |
|  | Sacha McMeeking; Garrick Cooper | What is the future of Māori and Indigenous Studies? | Emma | *Maurice* |
|  | Sacha McMeeking: Teena Henderson | What is the future of tertiary teaching of Te Reo Māori? | Unaiki | Melrose |
|  | Sacha McMeeking | Indigenous Leadership Models | Madison | Williams |
| New Zealand Brain Research Institute/Psychology | Michael MacAskill; John Dalrymple-Alford; Tim Anderson | Quantitative analysis of cognitive and hand-eye coordination strategies in Parkinson’s disease | Maddie | *Pascoe* |
|  | Tracy Mezler, John Dalrymple-Alford; Tim Anderson | Neuropsychiatric and structural brain changes in Parkinson's disease | Samantha | Groves |
|  | John Dalrymple-Alford; Dr Tracy Melzer; Tim Anderson | Recovery of function after brain damage: Restoring memory with brain stimulation | Sophie | Barnett |
| New Zealand Institute of Language, Brain and Behaviour (NZLIBB) | Jeanette King (Aotahi) | Tuhinga Māhorahora Project – analysing children’s writing in Māori | Niwa | Wehi |
|  | Jeanette King (Aotahi) | Comparative Language Input Project – transcription and analysis of recordings | Caitlin | Swan |
|  | Anne van Bysterveldt (Education) | Examining vocabulary and pragmatic language development and use of preschool children with developmental disabilities | Beth | Rees |
| Psychology | Jacki Henderson | Sleep and Technology Use in 11 -12 year old Children: Does it impact on Psychological wellbeing? | Mary | Abbott |
| Teacher Education | Niki Davis | Exploring the Artefacts within an Initial Teacher Education Programme | Katherine | Tompkins |
| Office of the AVC Maori | Ripeka Tamanui-Hurunui | Research project on the history of Te Akatoki Māori Students’ Study Centre, University of Canterbury | Troy | Whyman |

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| **Session D - 12:00-2:00, Room 111 Erskine Building; CHAIR – Dr Tammy Steeves** | | |  | |
| **Host Department** | **Project Leader** | **Project Title** | **First Name** | **Surname** |
| Biology | Jon Harding; Helen Warbarton | Testing the right riparian plant species for stream restoration projects: the role of leaf breakdown | Stacey | Bartlett |
|  | Daniel Stouffer | Using control theory as a guide for the restoration and recovery of ecological networks | Jenny | Sahng |
|  | Daniel Stouffer | Degrees of anachronism: quantifying maladaptive trait maintenance in frugivory networks | Matt | Hutchinson |
|  | Jon Harding & Nicky Glenjarman | The response of New Zealand freshwater fishes to fine inorganic sediment. | Hannah | Currie |
|  | Ren Dobson | Mapping the ¼ and ½ TIM barrels. | Michael | Currie |
|  | Steven Gieseg | Measurement of urinary dityrosine as a quantitative marker of oxidative stress in patients. | Nina | Steyn |
|  | Jack Heinemann | Investigating the contribution of herbicides to antibiotic resistance in important human pathogens | Tanya | Joseph |
|  | Ren Dobson | Development of a Bioassay for Angiotensinogen to Identify Women Prone to Pre-Eclampsia | Amanda | Board |
|  | Paul Gardner | Finding the determinants of genetic disease in the human genome | Elizabeth | Dunn |
|  | Paul Gardner | Finding the determinants of genetic disease in the human genome | James | Paterson |
|  | Paul Gardner | Finding the determinants of genetic disease in the human genome | Alysha | Rigter |
|  | David Schiel; Leigh Tait | Light delivery in shallow seaweed assemblages: importance of variability in enhancing photosynthesis | Savita | Goldsworthy |
|  | Dave Kelly | [Understanding and enhancing mistletoe biodiversity around urban Christchurch](file:///C:\Users\aim25\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\Content.Outlook\EEI18U0E\for%20web\137%20Kelly.doc) | Juanita | Miln |
|  | Paul Gardner; Tammy Steeves | Using conservation genomics to maximise the genetic diversity of threatened species | Maddie | Dowgray |
|  | Anthony Poole | Phylogeny-informed comparative transcriptomics of Bacteria and Archaea | Sam | Elley |
|  | Anthony Poole | Phylogeny-informed comparative transcriptomics of Bacteria and Archaea | Nellie | Sibaeva |
| Waterways Centre for Freshwater Management | Ian Hawes; David Collings | High-resolution imaging of algal and cyanobacterial communities in Canterbury rivers | Heather | Shearer |

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| **Session E -2:30-4:30, Room 101 Erskine Building** | | |  | |
| **Host Department** | **Project Leader** | **Project Title** | **First Name** | **Surname** |
| Civil and Natural Resources Engineering | Chin-Long Lee; Gregory Macrae; Audsley Jones | Determination of seismic demands on buckling restrained brace frames | Fanjie | Luo |
| Electrical& Process Engineering | Andrew Lapthorn | ECE Solid State Tesla Coil Upgrade Project | Annie | Welvaert |
|  | Chris Hann | Development and testing of a multi-stage coil gun for solid propellant rockets | Rohan | Brash |
| Electric Power Engineering Centre (EPE Centre) | Neville Watson | Power Quality Trending | Hans | Wijaya |
|  | Neville Watson& Allan Miller | Electric Vehicle Open Source Rapid Charger | Ben | Jar |
|  | Shreejan Pandey; Martin Allen | Online based Electrical Systems games for NCEA students. | Mohanad | Al-Hasani |
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| Mechanical Engineering | Geoff Rodgers; Tim Woodfield | Shape optimisation of 3D Printed titanium scaffolds for bone repair | Advait | Kiritkar |
|  | Iain McMillan (Enztec); Tim Woodfield; Dirk Pons | 3D Printed Medical Device for Orthopaedic Surgery | Hamish | Smeele |
|  | Stefanie Gutschmidt | Bio-inspired mass detection sensors | Anton | Good |
|  | Chris Pretty | Clinical Testing and Modeling Analysis of a Novel Venous Oxygen Sensor | Lachlan | Mackenzie |
|  | Sid Becker | Transdermal Drug Delivery: permeability enhancement by Sonoporation | Finbar | Argus |
|  | Tim Woodfield | 3D Printing of Intervertebral Disc to Treat Spinal Herniation | Mitchell | Page |
| Quake Centre | Robert Finch | Geotechnical assessment of New Zealand’s hydropower embankment dams | Lian | Tang |
| Spatial Engineering Research Centre (SERC) | Kelvin Barnsdale; Bruce Wilson | Dead reckoning using inertial sensors | Michael | Jones |
|  | Kelvin Barnsdale | Tracking flying insects using radio transmitters | Dylan | Mackie |
|  | Graeme Woodward | Computer vision tracking of flying insects | Michael | McAdam |
| Tait and Wireless Research Centre | Clive Horn: Graeme Woodward | Smart Device Applications for Situational Awareness | Jianluan | Chen |
|  | Clive Horn: Graeme Woodward | Application Development | Max | Choi |
|  | Clive Horn: Graeme Woodward | System Performance Analysis | Josh | Norton |
|  | Clive Horn: Graeme Woodward | Patent Landscaping | Simon | Jones |

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| **Session F - 2:30-4:30, Room 111 Erskine Building; CHAIR – Dr Sally Gaw** | | |  | |
| **Host Department** | **Project Leader** | **Project Title** | **First Name** | **Surname** |
| Forestry | Luis Apiolaza | Simulating multivariate sampling strategies in Eucalyptus progeny trials | Peter | Qiu |
|  | Euan Mason | Factors influencing survival of dryland forestry species | *Satoru* | Kuwabara |
|  | Euan Mason | Influence of genotype and silviculture on wood properties of radiata pine | Grace | Jones |
|  | Rien Visser | Cable-Assist Harvesting System Evaluation | Russell | *Schaare* |
|  | David Norton; Laura Young | Vegetation response to a wildfire in the Flock Hill Basin | Lily | Brailsford |
|  | Tara Murray | Big fat caterpillars – do eucalypt herbivores matter? | Vivien | Pan |
| Chemistry | Emily Parker | Engineering new enzymes with new properties | Alistair | Richardson |
|  | Emily Parker | ATP-phosphoribosyl transferase: a potential target of new anti-tuberculosis therapies? | Christopher | Hamilton |
|  | Sarah Masters | Implementation of a new very high temperature nozzle to determine gas phase dissociation products using molecular imaging. | Ben | Wilson |
|  | Sarah Masters | Synthesis and characterisation of amine-boranes as potential hydrogen storage compounds. | Andrew | Flanagan |
|  | Sally Gaw; Phil Lyver | Spatial variability of trace element concentrations in New Zealand Petrel Feathers | Samantha | Webb |
|  | Vladimir Golovko | Fabrication of solar fuel through photocatalytic reduction of CO2 and H2O to Hydrocarbons | Daniel | *Smith* |
|  | Richard Hartshom | Improving Fertiliser Production – Characterisation of phosphate rock feedstocks | Sarah | Lilley |
|  | Richard Hartshom | Improving Fertiliser Production – Characterisation of phosphate rock feedstocks | Sarah | Smithies |
|  | Vladimir Golovko | Making fuel from CO2? Myth? Reality! | Ryan | Kirk |
| Geological Sciences | Andy Nicol | Generation and geometry of fault rock | Henry | Winter |
|  | Kari Bassett; Greg Browne | Modern Depositional Systems | Rebecca | Joyce |
| Geological and Nuclear Science (GNS Science) | Kelvin Barnsdale; Geoff Kilgour | Developing an ash/water collection system for UAVs | Martin | Steinke |
|  | Mostafa Nayyerloo; Geoff Chase; Geoff Rodgers; SR Uma | Stability of the WREMO 200L emergency rainwater tanks during a major earthquake | AAdam | Mir |
| AgResearch | Arun Ghosh | Protein based thermoplastic materials | Leathem | Landon-Lane |