



NeSI
New Zealand eScience
Infrastructure



2018 Science Coding Conference 2nd – 3rd August, Rotorua

Day 1, Thursday 2 August, 2018

9.00am	Registration Opens
9.30am	Housekeeping
10.00am	Welcome & Opening
10.10am	Keynote address: Associate Professor Maui Hudson, University of Waikato: Māori Rights and Interests in Data
11.00am	Morning Tea
11.30am	Presentations
	<p>Bryan Graham, Scion: The Journey of Informatics at Scion (15 mins)</p> <p>Sebastian Schmeier, Massey University: Towards reproducible computational biology: Package control, workflow management, and containers (30 mins)</p> <p>Alex Pletzer, NeSI : Make most out of your core hours: comparing C++/Fortran compilers on Kupe (15 mins)</p> <p>Maxime Bombrun, Scion: A machine learning approach to assess productivity at forest scale (15 mins)</p> <p>Gabriella Turek, NIWA: Working Towards an Inundation Forecasting System (15 mins)</p>
1.00pm	Lunch - (along with and ongoing VR Demo by Ben Jolly)
2.00pm	RSE Panel Discussion
	<p>Introduction to RSE's</p> <p>Panelists: Melissa Evans (Scion), Rand Husso (GNS Science), Manodeep Sinha (Centre for Astrophysics and supercomputing, Swinburne University of Technology)</p> <p>Hilary Oliver, Niwa: Making RSE Careers Official at NIWA</p>
3pm	Presentations

	<p>Shane Sturrock, Scion: Implementing a next generation scalable BioIT platform for genomics workloads (15 mins)</p> <p>Alan Tan, Scion: LUCE – a LiDAR Processing and Analysis Platform (15 mins)</p>
3:30pm	Afternoon Tea
4pm	Presentations
	<p>Hilary Oliver, Niwa: Production-Hardening the Cylc Workflow Engine (30 mins)</p> <p>Rand Huso - GNS Science: Message Passing Interface and Inversion of Control (30 mins)</p>
5.00pm	Reception, Networking & Conference Dinner

Day 2, Friday 3 August, 2018	
9.00am	Registration Opens
9.20am	Housekeeping
10:00am	Keynote Address: Jan Zoerner - Manaaki Whenua: Mapping tall trees in Greater Wellington using LiDAR data and an open-source tool chain
11.00am	Morning Tea
11.30am	Presentations
	<p>Cyprien Bosserelle - NIWA: Towards an adaptive quad-tree Shallow Water Equation GPU model for inundation simulations (15 mins)</p> <p>Chris Scott, NeSI: Optimising a Python code with C and OpenMP (15 mins)</p> <p>Mandes Schoenherr, NeSi: Development tools for testing, debugging and profiling (15 mins)</p>
12.15pm	Redwood Forest walk
1.00pm	Lunch
1.45pm	Presentations
	<p>Wolfgang Hayek - NeSI/NIWA: In-Situ Visualisation with ParaView Catalyst (15 mins)</p> <p>Nicole Silvester – Scion: Key concepts for a long term data management system: lessons learned from the European Nucleotide Archive (30 mins)</p> <p>F. Jorge Bornemann - NIWA: Creating maps in python with cartopy (15 mins)</p>
2.45pm	Closing Remarks
3:00pm	Conference End



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