

Quantum Gates, Jumps, & Machines. Program.

	Wed 24/10	Thu 25/10	Fri 26/10
9:20	Opening Prof Robert Sang, Dean (Academic), Griffith Sciences Prof Bronwyn Harch, Deputy Vice- Chancellor (Research), University of Queensland		
9:30	Intro by Wiseman and Bachor	Bob Clark "CQCT and GJM: Once Upon a Time - Conception of an Australian Quantum Computing Initiative"	Mohan Sarovar "Crosstalk in quantum computers and causal graphs"
9:50	Dave Wineland	Barry Sanders	Ray Laflamme
10:35	Morning tea	Morning tea	Morning tea
11:15	Sally Shrapnel "Classical and quantum causal models"	Carl Caves "Diving Deep into a Quantum- Information-Processing Problem: Quantum Limits on the Performance of Linear Amplifiers"	Peter Knight "Single photons, the Kerr effect and Photonic Logic"
11:50	Andrew Briggs "Coherent nanomachines"	Jason Twamley "Look Ma - no hands!" Quantum Magneto-mechanics - a new platform for motional quantum engineering	Jonathan Dowling "Schrödinger's Web - Race to Build the Quantum Internet"
12:25	Special announcement	Conference Photo	Special announcement
12:30	Lunch (not catered)	Lunch (not catered)	Lunch (not catered)
14:00	Michelle Simmons	Andrew White	Hsi-Sheng Goan "Quantum Gates, Jumps and Measurements in nanostructure systems"
14:45	Howard Carmichael "Jumps that don't: a demonstration in superconducting circuits"	Kae Nemoto	Warwick Bowen "Quantum sensing with light: from quantum fluids to biomolecules"
15:20	afternoon tea	afternoon tea	afternoon tea
16:00	Andrew Doherty "Quantum trajectories, optomechanical position measurement, and tomography of nonclassical states of motion"	Bill Munro "Feynman's Machine"	Alain Aspect
16:35	Tim Ralph "Kittens and Wormholes"	Howard Wiseman "Quantum trajectories at the border of possibility"	Shrapnel / Milburn
17:10	Magdalena Zych "Relativistic mass-energy effects in trapped particles"	Matt Woolley "Quantum Limit of the Atomic Force Microscope: 1994 to the present day"	
17:30	Poster presenters walk to Ship Inn		
17:45	Poster set-up. Others walk to Ship Inn	Walk to GOMA	
18:00	Catered Poster Session at Ship Inn 6:00PM-8:30PM ----- Concurrent with Michelle Simmons public talk at UQ	Pre-dinner drinks at GOMA roof- top 6:00pm-6:45pm. Conference Dinner at GOMA. David Pegg Closes at 9:30PM	