

1st Workshop of the Melbourne Condensed Matter Community (MC)²

Swinburne University of Technology

TD144 (see attached for details)

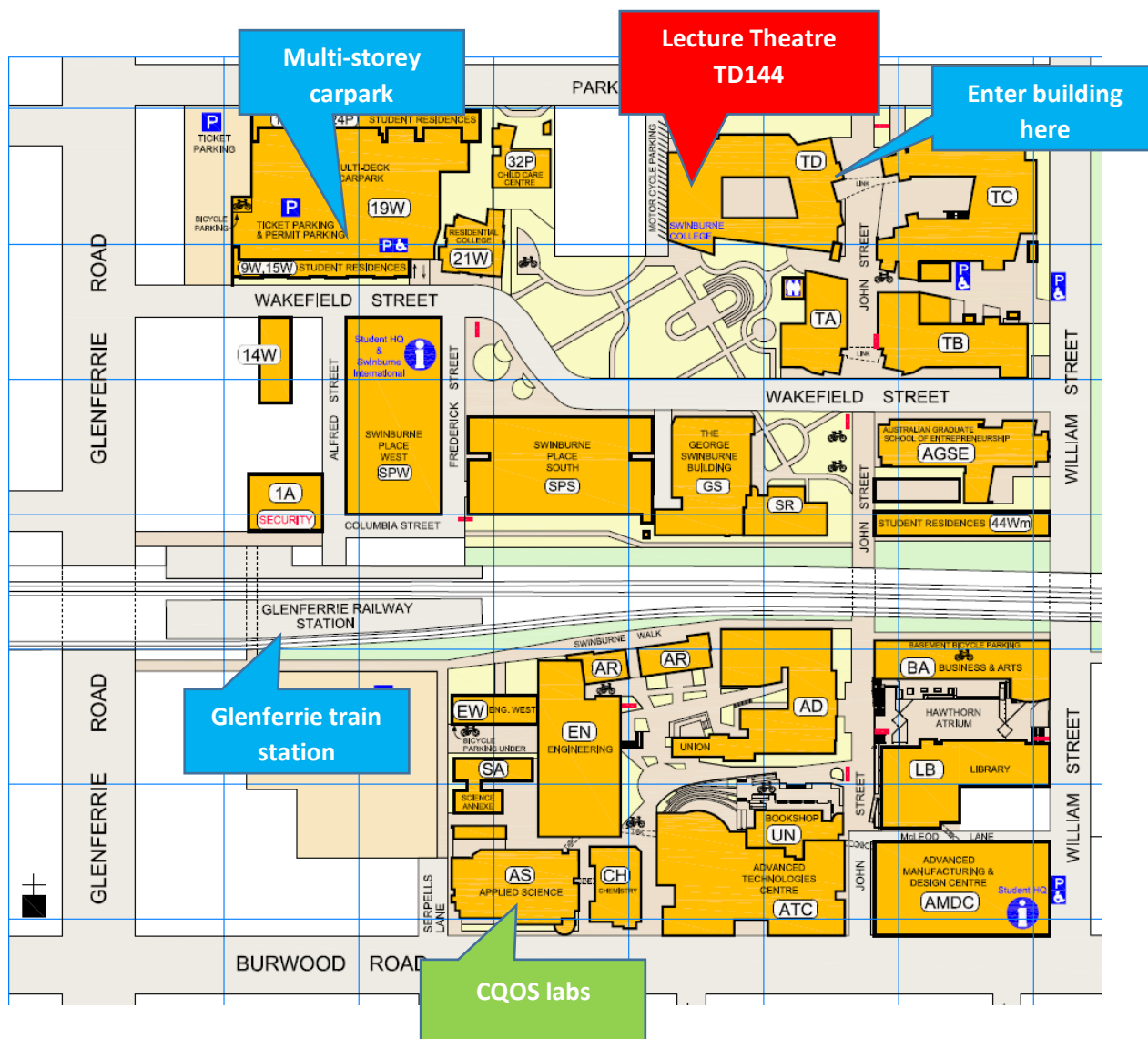
8 June 2018

Welcome to the first workshop of the Melbourne Condensed Matter Community! This is the first of what is planned to be a semi-annual workshop bringing together the condensed matter community from the Melbourne area to share their most recent and most exciting research results.

All interested parties are invited to join us for this inaugural workshop, but please let us know you are coming. If you have any queries please contact your local organiser or Jeff Davis

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9.30am	welcome	
9.40 am	Michelle Spencer (RMIT)	Reactions and stability of 2D nanomaterials with oxygen and other gases
10.00 am	Agustin Schiffrin (Monash)	Low-Dimensional Coordination Nanostructures on Surfaces: Atomic-Scale Electronic Control
10.20 am	Chris Pakes (La Trobe)	Spin interference in 2D surface conducting diamond
10.40 am	MORNING TEA	
11.10 am	Steven Praver (Melbourne)	Superconducting Diamond
11.30 am	Jared Cole (RMIT)	Superconducting electronics - putting the quantum into circuit theory
11.50 pm	Jeff Davis (Swinburne)	Coherent dynamics in high-temperature cuprate superconductors to reveal low-energy interactions
12.10 pm	LUNCH (Sapa Hills)	
1.30 pm	Dongchen Qi (La Trobe)	Reconfiguration of the 3d electronic structures of manganese phthalocyanine upon nitrogen adsorption
1.50 pm	Nikhil Medhekar (Monash)	Investigating electronic structure using density functional theory simulations in electronic and energy materials
2.10 pm	Julie Karel (Monash)	Low temperature metallicity and distinct electronic structure induced by liquid electrolyte gating in VO ₂ and WO ₃ thin films
2.30 pm	Xiao Wang	Imaging and tailoring magnetism in complex-oxide heterostructures
2.50 pm	AFTERNOON TEA	
3.20 pm	Michael Fuhrer (Monash)	Electric Field-Tuned Topological Phase Transition in Ultra-Thin Na ₃ Bi – Towards a Topological Transistor
3.40 pm	Stephan Rachel (Melbourne)	Hunting for fractionalized particles: from topological superconductors to quantum spin liquids
4.00 pm	Xiaji Liu (Swinburne)	Route to Observing Fulde-Ferrell Superfluids via a Dark-State Control of Feshbach Resonances
4.20 pm	Close	



The workshop of the Melbourne Condensed Matter community is a joint event of Swinburne University of Technology, LaTrobe University, Monash University, RMIT University and University of Melbourne.

We are grateful for support from the ARC Centre of Excellence for Future Low-Energy Technology ([FLEET](#)) and the [Centre for Quantum and Optical Science](#), Swinburne

 **FLEET** ARC CENTRE OF EXCELLENCE IN FUTURE LOW-ENERGY ELECTRONICS TECHNOLOGIES

