FLEET2022 ANNUAL WORKSHOP PROGRAM

@FLEETcentre #FLEET2022			
MON	IDAY 4 JULY Chair: Kourosh Kalantar-Zadeh	WEI	DNESDAY 6 JULY Chair: Golrokh Akhgar
12:00	Lunch: hot buffet	14:00	Quantum materials for FLEET technologies: A neutron scattering perspective: Kirrily Rule
13:00	Welcome: Alex Hamilton	14-20	Spatial control over the Z2 invariant and surface conductivity of a
13:20	Operations: Tich-Lam Nguyen	14:30	strong 3D topological insulator; David Cortie
13:30	Research theme 2 overview: Elena Ostrovskaya	14:50	Liquid metal (LM) and LM alloy reaction platforms for the growth of 2D metal oxides; Tin-facilitated growth of 2D Manganese-based
14:00	Rydberg exciton-polaritons in a magnetic field: Emma Laird	11.50	oxides: Abigail Goff
14:20	Superradiant excitons in organic 2D monolayers: Yuerui Lu	15:10	Outreach committee: Nikhil Medhekar
14:40	Towards creating spatially indirect excitons in bilayer graphene van der Waals heterostructures: Feixiang Xiang	15:25	Tea break: fruit platter yoghurt
15:00	Tea break: Chef's selection of cakes		Chair: Shaffique Adam
	Chair: Jeffrey Davis	16:10	DFT Modelling of multiferroic In ₂ Se ₃ /Fe ₃ GeTe ₂ and other van der Waals heterostructures: Michelle Spencer
15:45	Observation of room temperature excitons in an atomically thin topological insulator: Marcin Syperek	16:40	Electronic properties of the charge density wave material IT-TiSe ₂ : Joshua Gray
16:15	Interplay between polarization and quantum correlations of confined polaritons; Olivier Bleu	17:00	Nonlinear responses of topological materials: Dimi Culcer
16:35	Exciton-polariton interactions in monolayer WS ₂ : Jack Muir	15:20	Equity & Diversity committee: Jeff Davis
16:55	P-type Ohmic contact to monolayer WSe, field-effect transistors using	17:35	Poster presentations: canapes and drinks
	high electron affinity MoO ₃ : Yi-Hsun Chen	18:45	Group photo
17:30	Tour of UOW FLEET node Science space show Free time	19:00	Conference Dinner - 3 course formal menu
19:00	Dinner: Mediterranean BBQ buffet	THU	RSDAY 7 JULY Chair: Dongchen Qi
	Research theme 3 overview; Kris Helmerson	9:00	Non-invasive neural interfaces with epitaxial graphene: Francesca Jacopi
9:20	Advances in attosecond metrology: Matt Weidman	9:30	Phonon-polariton propagation in hBN and MoO ₃ - effect of boundar-
9:50	Determination of static and dynamic complex optical properties using	9:50	ies: Jiong Yang 2D oxide from liquid eutectic mixture: Patjaree Aukarasereenont
	THz-TDS: Gary Beane Arbitrary Phase Control of Ground-Exciton State Coherence in Mono-	10:10	Plasmonic and dielectric nanoantennas coupled to 2D materials:
10:10	layer WS ₂ ; Mitch Conway	10:20	Stefan Maier Communications committee: Karina Hudson
10:30	Tea break: Chef's selection of bakery items	10:35	
44.45	Chair: Chris Vale	10.55	Chair: Jan Seidel
11:15	Strongly-correlated electron-photon systems: Victor Galitski	11:20	Quantum transport in topological nanoribbon with disorders:
12:05	Dynamics in Fermi gases quenched to unitarity: Paul Dyke Vortices in bubble shaped BECs: Angela White	11.20	Hong Liu
12:25	Microscopic derivation of Hubbard parameters from quantum gas microscopes: Haydn Adlong	11:40	Investigation of bulk-edge interaction and spin-filtered transport in two-dimensional planar bismuthene: Yuefeng Yin
12:45	Lunch: Gourmet sandwiches & wraps	12:00	Influence of device geometry and imperfections on the interpretation of transverse magnetic focusing experiments: Yik Kheng Lee
13:00	Tour of ANSTO 1-5 PM Tour of UOW FLEET node 2-5 PM Science Space show 2-5 PM Free time	12:20	Industry Relations committee: Torben Daeneke
		12:35	Closing and Awards: Michael Fuhrer
	FLEET Translation Program - Ask me anything: Michael Harvey	12:50	
17:30	Poster presentations: canapes and drinks	14:00	Buses to UNSW and Sydney Airport Tour of UOW FLEET node 17:45
19:00	Dinner: hot buffet	40.45	Chair: Tich-Lam Nguyen
	NESDAY 6 JULY Chair: Jackson Smith	13:45	veski kickstart: Personal brand development & CV writing
9:00	Research themes 1AB: Alex Hamilton, Xiaolin Wang, Lan Wang Some theoretical results for twisted bilayer graphene near magic	15:15	Tea break: Chefs selection of sweet and savoury veski kickstart panel discussion: Changing directions -
9:35	angle: Shaffique Adam	15:45	understanding and positioning your skills veski kickstart: The strategic job search & networking
9:55	Theory of exciton condensation in biased bilayer graphene: Harley Scammel	16:30	veski kickstart: Rotated networking with industry leaders
10:15	FLEET Translation Program Michael Harvey	19:00	
10:30	Tea break: House-made cookies and muesli bars		DAY 8 JULY Dan Sando, Abby Goff & Abhay Gupta
	Chairs: Simon Granville	9:00	, , ,
11:15	Tuning the electronic and optical properties of phosphorene: straining, stacking and twisting: Francois Peeters	10:30	Tea break: Chefs selection of bakery items Academia and beyond - science careers Q & A panel discussion:
11:45	Progress towards artificial graphene: Daisy Wang	11:00	ECR working group
12:05	Correlation-induced magnetism in substrated-supported 2D metal-organic frameworks: Bernard Field	12:30 14:00	Lunch: Live BBQ Buses to UNSW and Sydney Airport
12:25	Education & Training committee: Sue Coppersmith		ARC CENTRE OF EXCELLENCE IN
12:40	Lunch FLEET Executive committee June meeting		FUTURE LOW-ENERGY ELECTRONICS TECHNOLOGIES