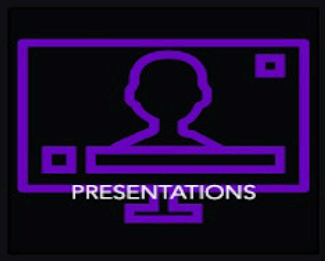

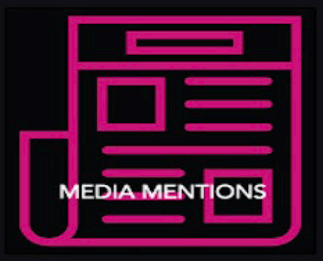

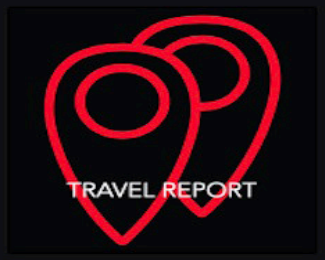

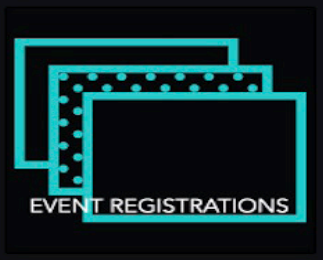

APPENDICES

FLEET MEMBER INVOLVED	BOARD / COMMITTEE TYPE	DESCRIPTION
David Cortie	Advisory boards	Asia Oceania Neutron Scattering Association
Oleg Sushkov	Advisory boards	Member of the Asia-Pacific Workshop Committee
Tich-Lam Nguyen, Nicci Coad, Tenille Ibbotson	Conference organiser	CoE 2023 Operations Workshop
Tenille Ibbotson	Conference organiser	Condensed Matter and Materials Conference: Wagga 2023
Meera Parish, Jesper Levinsen	Conference organiser	Fermipolar conference organisers
Abigail Goff	Conference organiser	FLEET Student/ECR WG
Tenille Ibbotson	Conference organiser	inSTEM
Priyank Kumar	Conference program committee	AM&ST 2022 conference committee
Abhay Gupta	Conference program committee	FLEET Student/ECR WG
Maedehsadat Mousavi	Conference program committee	inSTEM
Susan Coppersmith	Editorial	Applied Physics Letters Editorial Board
Matthew Davis	Editorial	arXiv.org
Priyank Kumar	Editorial	Chemical Engineering Journal Early-Career Editorial Board
Jan Seidel	Editorial	Editorial Board Member, Materials Today Electronics (Elsevier)
Jan Seidel	Editorial	International Advisory Board Member, Advanced Electronic Materials (Wiley-VCH)
Matthew Davis	Editorial	Physical Review Letters
Matthew Davis	Editorial	SciPost Physics
Maedehsadat Mousavi	FLEET Event organiser	ECR committee
Jason Major	FLEET Event organiser	National Science Quiz Organising Committee
Jesper Levinsen	Task-specific working groups	AIP Victoria branch
Hien Thi Dieu Nguyen	University committees	MSE Postgraduate society (PGSOC)
Jan Seidel	University committees	UNSW Academic Board

Photo credit: Sarah Chavdaroska

NEW COLLABORATIONS

COLLABORATION	COLLABORATION TYPE	COUNTRIES
Archer Materials	End-user / Industry engagement	Australia
Archerx: Martin Fueschle	End-user / Industry engagement	Australia
ColdQuanta: Noah Fitch, Anjul Loicano, Paul Lipman, Dana Anderson	End-user / Industry engagement	United States of America
Attocube AG	End-user / Industry engagement	Germany
Australian Army - Department of Defence	End-user / Industry engagement	Australia
BluGlass Ltd	End-user / Industry engagement	Australia
Google AI	End-user / Industry engagement	United States of America
Intel Corporations	End-user / Industry engagement	United States of America
Lockheed Martin	End-user / Industry engagement	United States of America
Micromole Corporation	End-user / Industry engagement	Australia
Office of National Intelligence - Australian Government	End-user / Industry engagement	Australia
Samsung	End-user / Industry engagement	South Korea
Silanna Semiconductor Pty Ltd	End-user / Industry engagement	Australia
Thales Group	End-user / Industry engagement	Australia
Uniseed	End-user / Industry engagement	Australia
US Naval Labs	End-user / Industry enagement	United States of America
US Office of Naval Research Global	End-user / Industry engagement	United States of America
Asia Pacific Centre for Theortetical Physics: Samm Begg	External organisation	South Korea
Cambridge University: Ekhard Salje	External organisation	United Kingdom
Catholic University of the Sacred Heart - Brescia: Claudio Giannetti	External organisation	Italy
Chinese Academy of Science: Rogqui Zheng, Jiangyu Li	External orginsation	China
City University of New York: Vinod Menon	External organisation	United States of America
CNRS: Hadrien Kurkjian	External organisation	United States of America
CSIRO: Avi Bendavid,Wendy Purches	External organisation	Australia
Czech Academy of Sciences	External organisation	Czech Republic
Eindhoven University of Technology	External organisation	Netherlands
Graduate School of China Academy of Engineering Physics: Xiaoquan Yu	External organisation	China
IMEC: Anton Potocnik	External organisation	Belgium
Indian Institute of Technology Bombay: Dipti Gupta	External organisation	India

COLLABORATION	COLLABORATION TYPE	COUNTRIES
Indian Institute of Technology Hyderabad: Santosh Raavi	External organisation	India
KAIST: Chan-Ho Yang	External organisation	South Korea
Kyoto University: Masashi Shiraishi	External organisation	Japan
Lawrence Berkeley National Laboratory: Sung-Kwan Mo	External organisation	United States of America
Manipal Academy of Higher Education: BV Rajendra	External organisation	Germany
Max Planck Institute for Chemical Physics of Solids: Claudia Felser	External organisation	Germany
Max Planck Institute for Solid State Research: Manish Garg, Claudia Felser	External organisation	Germany
National Academy of Science of Ukraine: Anna Morozovska, Evgeny Eilseev	External organisation	Ukraine
North Carolina State University: Michael Dickey	External organisation	United States of America
Oak Ridge National Laboratory: Rama Vasudevan, Sergei Kalinin	External organisation	United States of America
Penn State University: Long-Qing Chen, Roman Engel-Hubert	External organisation	United States of America
Purdue University: Yuli Lyanda-Geller	External organisation	United States of America
South China Normal University: Ruiqiang Wang	External organisation	China
South China University of Technology: Yujun Zhao	External organisation	China
Taif University: Ghaida Alosaimi	External organisation	Saudi Arabia
Technical University of Munich: Jonannes Barth, Wilhelm Auwarter, Reinhard Kienberger	External organisation	Germany
Texas Instruments: Theodore Moise	External organisation	United States of America
UCLA Berkeley: R Ramesh, Frances Hellman, Sayeef Salahuddin	External organisation	United States of America
Universitat Politècnica de Catalunya: Claudio Cazorla	External organisation	Spain
University of Adelaide: Tak Kee, Nelson Tansu	External organisation	Australia
University of British Columbia: Doug Bonn, Sarah Burke	External organisation	Canada
University of East Anglia: Hayder Salman	External organisation	United Kingdom
University of Kaiserlautern: Michael Fleischauer, Herwig Ott	External organisation	Germany
University of Manchester	External organisation	United Kingdom
University of Massachusetts Amherst: A Ramasubramaniam	External organisation	United States of America
University of Melbourne: Muhammad Usman	External organisation	Australia

COLLABORATION	COLLABORATION TYPE	COUNTRIES
University of Michigan: Steven Cundiff	External organisation	United States of America
University of Nebraska-Lincoln: Wei Bao	External organisation	United States of America
University of Sydney: Chris Ling	External organisation	Australia
University of Trento: Victor Colussi	External organisation	Italy
University of Trieste: Diniele Fausti	External organisation	Italy
University of Warwick: Marin Alexe	External organisation	United Kingdom
University of Wisconsin-Madison: Leah Tom, Mark Friesen	External organisation	United States of America
Monash University: Chris Ritchie	FLEET partner organisation	Australia
University of New South Wales Canberra: Andrey Miroshnichenko	FLEET partner organisation	Australia
University of New South Wales Sydney: Dipan Kundu, Damia Mawad, Neeraj Sharma, Danyang Wang	FLEET partner organisation	Australia
University of Otago: Blair Blake, Ashton Bradley	FLEET partner organisation	Canada
University of Singapore Technology and Design: Shenyuan Yang	FLEET partner organisation	Singapore
Universidad Autonoma de Madrid: Amadeo Lopez Vázquezde Parga	Student Exchange / Internships	Spain

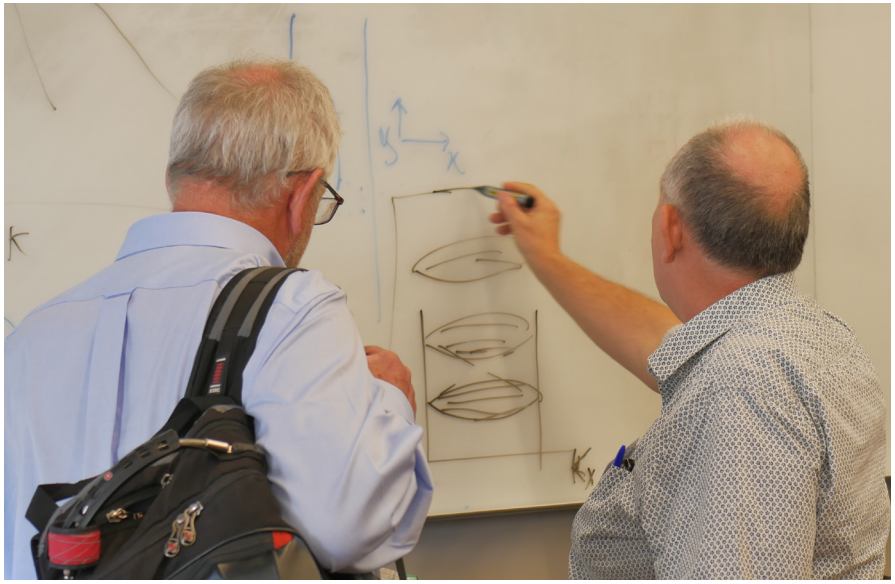

Photo credit: Matthew Rendell

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Next generation electronics: Flexible electronics, printed electronics and liquid metal catalysis	Torben Daeneke	Briefing on next generation electronics	Online - domestic audience	25-01-2022	Technical briefing - to government / industry	
Lab tour and presentation to government officials	Xiaolin Wang	FLEET Wollongong lab tour	Australia	01-02-2022	Technical briefing - to government / industry	
Electron-exciton interactions in the exciton-polaron problem	Dmitry Efimkin	Fermi Polarons: From ultracold gases to 2D semiconductors - Fermi-Polar Workshop	Online - international audience	07-02-2022	Conference presentation	*
Superconducting circuits: Perfect for quantum computing (and electronics)	Jared Cole	Presentation to the Rare-earth Nitride Group	Online - international audience	17-02-2022	Research seminar	*
Local chaos to long-range order: The prospects of magnetic high-entropy oxide thin films	Michael Lord	Australian Centre for Neutron Scattering Early Career Researcher Clip Day	Online - domestic audience	24-02-2022	Conference presentation	
Superconducting circuits: Charge-phase duality, Josephson junctions, nanowires and the quest for ultra-low-noise electronics	Jared Cole	Physics department seminar	Australia	15-03-2022	Research seminar	*
Quantum opportunities in mining technology	Michael Harvey	Briefing to OZ Minerals Emerging Technology	Australia	15-03-2022	Technical briefing - to government / industry	
Towards efficient spin current generation using amorphous materials	Julie Karel	APS March Meeting	USA	16-03-2022	Conference presentation	*
Introduction to non-Hermitian physics	Eliezer Estrecho	Online Lecture	Online - domestic audience	04-04-2022	Research seminar	
Vortices in bubble shaped Bose-Einstein condensates	Angela White	Online-Workshop on Prospects of Quantum Bubble physics	Online - international audience	07-04-2022	Research workshop / symposium	*
Strong correlations and exotic magnetism in monolayer 1T-$TaSe_2$	Benjamin Lowe	Monash Journal Club	Australia	07-04-2022	Journal Club	

** indicates invited presentations to international research community*

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Superconducting circuits: Simulating their fabrication, electrical response, novel materials and novel circuits	Jared Cole	MacDiarmid Future Computing Workshop	Online - international audience	11-04-2022	Research workshop / symposium	*
Non-Hermitian effects on exciton-polariton dispersion	Eliezer Estrecho	PLMCN22: International conference on Physics of Light-Matter Coupling in Nanostructures	Cuba	12-04-2022	Conference presentation	*
Mentoring	Tich-Lam Nguyen	ASBTE 2022 Annual Meeting - ECR Development workshop	Australia	20-04-2022	Conference presentation	*
Transport in a one-dimensional chain of multi-mode Bose-Einstein condensates	Matthew Davis	FINESS2022	Germany	03-05-2022	Conference presentation	*
Matthias Wurdack: Properties and dynamics of exciton polaritons in atomically-thin WS_2 crystals at room temperature	Matthias Wurdack	FLEET Seminar	Online - domestic audience	11-05-2022	Research seminar	
Superior polarization retention through engi-neered domain wall pinning	Jan Seidel	Materials Research Society Spring Meeting	USA	13-05-2022	Conference presentation	
Lab tour and presentation to ARC CEO and members of staff	Xiaolin Wang	FLEET Wollongong lab tour	Australia	19-05-2022	Technical briefing - to government / industry	
Topology and disordered materials	Julie Karel	MPI CPfS Colloquium	Germany	08-06-2022	Research seminar	*
Multi-scale computational modelling of nano- and quantum-technology simulating future technology .... today!	Jared Cole	Departmental seminar, School of Chemical and Physical Sciences	New Zealand	09-06-2022	Research seminar	*
Harley Scammel: Exciton condensation in bilayer graphene	Harley Scammell	FLEET seminar	Australia	10-06-2022	Research seminar	
Superconducting circuits: Charge-phase duality, computational materials science and the quest for ultra-low-noise electronics.	Jared Cole	Departmental seminar, Robinson Research Institute	New Zealand	15-06-2022	Research seminar	*
Fermi polarons from cold atoms to doped semiconductors	Jesper Levinsen	Fermi polarons from cold atoms to doped semiconductors	Denmark	17-06-2022	Research seminar	*

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Multidimensional coherent spectroscopy to reveal interactions in strongly correlated materials	Rishabh Mishra	CMDS conference 2022	USA	23-06-2022	Poster	
Observation of artificial Fermi surfaces in a patterned semiconductor two dimensional electron gas	Oleh Klochan	International conference on the physics of semiconductors 2022	Australia	27-06-2022	Conference presentation	
Probing the unique spin properties of semiconductor holes with one-dimensional quantum point contacts	Alex Hamilton	International conference on the physics of semiconductors 2022	Australia	27-06-2022	Conference presentation	*
Towards efficient spin current generation using amorphous materials	Julie Karel	Sol-Sky Mag Conference	Spain	28-06-2022	Conference presentation	
Phase modulation of self-gating in ionic liquid-functionalized InSe field-effect transistors	Shao-Yu Chen	International conference on the physics of semiconductors 2022	Australia	28-06-2022	Conference presentation	
Fast adiabatic switching of floquet-bloch states in monolayer WS_2 reveals coherent dynamics	Stuart Earl	International conference on the physics of semiconductors 2022	Australia	28-06-2022	Conference presentation	
Universal hydrodynamic flow in a two dimensional electron fluid in a GaAs/AlGaAs heterostructure	Aydin Keser	International conference on the physics of semiconductors 2022	Australia	28-06-2022	Conference presentation	
Resonant photovoltaic effect in doped magnetic semiconductors	Pankaj Bhalla	International conference on the physics of semiconductors 2022	Australia	28-06-2022	Conference presentation	
Large magnetic gap in a designer ferromagnet-topological insulator-ferromagnet heterostructure	Qile Li	International conference on the physics of semiconductors 2022	Australia	28-06-2022	Conference presentation	
Enabling diamond nanoelectronics by solid state surface transfer doping	Dongchen Qi	International conference on the physics of semiconductors 2022	Australia	28-06-2022	Conference presentation	
Suppressing remote optical phonon scattering in graphene below room temperature with touch-printed oxide	Matthew Gebert	International conference on the physics of semiconductors 2022	Australia	28-06-2022	Conference presentation	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Possible excitonic insulating phase in quantum-confined Sb nanoflakes	Zhi Li	International conference on the physics of semiconductors 2022	Australia	28-06-2022	Conference presentation	
Anisotropic ionic conduction in van der Waals ferroelectrics	Pankaj Sharma	2022 IEEE International Symposium on Applications of Ferroelectrics (ISAF)	Online - international audience	29-06-2022	Conference presentation	*
Boundary induced auxiliary features in scattering-type nanoIR spectroscopy and high-Q phonon-polaritons in spatially confined free-standing biaxial alpha-MoO_3	Jiong Yang	International conference on the physics of semiconductors 2022	Australia	29-06-2022	Conference presentation	
Hybrid dark excitons in monolayer MoS_2	Dmitry Efimkin	International conference on the physics of semiconductors 2022	Australia	29-06-2022	Conference presentation	*
Exciton-polaron interactions in monolayer WS_2	Jack Muir	International conference on the physics of semiconductors 2022	Australia	29-06-2022	Conference presentation	
P-type ohmic contact to monolayer WSe_2 field-effect transistors using high electron affinity amorphous MoO_3	Yi-Hsun Chen	International conference on the physics of semiconductors 2022	Australia	29-06-2022	Conference presentation	
Direct measurement of biexcitons in monolayer WS_2	Mitchell Conway	International conference on the physics of semiconductors 2022	Australia	29-06-2022	Conference presentation	
Topological transistors - overcoming Boltzmann's tyranny and mobility limitations	Dimi Culcer	International conference on the physics of semiconductors 2022	Australia	29-06-2022	Conference presentation	
Understanding magnetic and topological coupling in ultra-thin $MnBi_2Te_4$	Qile Li	International conference on the physics of semiconductors 2022	Australia	29-06-2022	Conference presentation	
New signatures of spin-orbit and topological spin gap in 1D quantum wires	Karina Hudson	International conference on the physics of semiconductors 2022	Australia	29-06-2022	Conference presentation	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Interplay between polarization and quantum correlations of confined polaritons	Olivier Bleu	International conference on the physics of semiconductors 2022	Australia	30-06-2022	Conference presentation	*
Gate-tunable magnetism & spin transport in 2D materials	Lan Wang	FLEET Satellite Meeting	Australia	01-07-2022	Research workshop / symposium	*
The topological transistor as a low-voltage switch	Michael Fuhrer	FLEET Satellite Meeting	Australia	01-07-2022	Research workshop / symposium	*
Superfluidity and supersolid of spatially indirect excitons in mololayer heterostructures	Francois Peeters	FLEET Satellite Meeting	Australia	01-07-2022	Research workshop / symposium	*
Towards the artificial band structure in GaAs two dimensional electron gases	Alex Hamilton	FLEET Satellite Meeting	Australia	01-07-2022	Research workshop / symposium	*
Some theoretical results for twisted bilayer graphene near magic angle	Shaffique Adam	FLEET Satellite Meeting	Australia	01-07-2022	Research workshop / symposium	*
Room-temperature exciton polaritons in monolayer WS_2	Elena Ostrovskaya	FLEET Satellite Meeting	Australia	01-07-2022	Research workshop / symposium	*
Superradiant excitons in organic 2D monolayers	Yuerui (Larry) Lu	FLEET 2022 Annual Workshop	Australia	04-07-2022	Research workshop / symposium	
Exciton-polariton interactions in monolayer WS_2	Jack Muir	FLEET 2022 Annual Workshop	Australia	04-07-2022	Research workshop / symposium	
Rydberg exciton-polaritons in a magnetic field	Emma Laird	FLEET 2022 Annual Workshop	Australia	04-07-2022	Research workshop / symposium	
Interplay between polarization and quantum correlations of confined polaritons	Olivier Bleu	FLEET 2022 Annual Workshop	Australia	04-07-2022	Research workshop / symposium	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Towards creating spatially indirect excitons in bilayer graphene van der Waals hetero-structures	Feixiang Xiang	FLEET 2022 Annual Workshop	Australia	04-07-2022	Research workshop / symposium	
P-type ohmic contact to monolayer WSe_2 field-effect transistors using high electron affinity MoO_3	Yi-Hsun Chen	FLEET 2022 Annual Workshop	Australia	04-07-2022	Research workshop / symposium	
2D correlated-electron metal-organic nano-materials	Agustin Schiffrin	RACI 2022 National Congress	Australia	04-07-2022	Conference presentation	*
WTe_2 monolayers – growth & transfer	Daniel McEwen, Liam Watson	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Advances in attosecond metrology	Matthew Weidman	FLEET 2022 Annual Workshop	Australia	05-07-2022	Research workshop / symposium	
Dynamics in Fermi gases quenched to unitarity	Paul Dyke	FLEET 2022 Annual Workshop	Australia	05-07-2022	Research workshop / symposium	
Strongly-correlated electron-photon systems	Victor Galitski	FLEET 2022 Annual Workshop	Australia	05-07-2022	Research workshop / symposium	
Arbitrary phase control of ground-exciton state coherence in monolayer WS_2	Mitchell Conway	FLEET 2022 Annual Workshop	Australia	05-07-2022	Research workshop / symposium	
Microscopic derivation of Hubbard parameters fro quantum gas microscopes	Haydn Adlong	FLEET 2022 Annual Workshop	Australia	05-07-2022	Research workshop / symposium	
Determination of static and dynamic complex optical properties using THz-TDS	Gary Beane	FLEET 2022 Annual Workshop	Australia	05-07-2022	Research workshop / symposium	
Vortices in bubble shaped Bose-Einstein condensates	Angela White	FLEET 2022 Annual Workshop	Australia	05-07-2022	Research workshop / symposium	
FLEET induction	Tich-Lam Nguyen	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Magnetometic imaging of electronic structures	Michael Barson	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Lightly strained germanium quantum wells with hole mobility exceeding one million	Matthew Rendell	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Towards optical control of electronic topology in graphene	Phat Nguyen	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Influence of device geometry and imperfections on the Interpretation of transverse magnetic focusing experiments	Yik Kheng Lee	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Electronic properties of the charge density wave material 1T-$TiSe_2$	Joshua Gray	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Liquid metal (LM) and LM alloy reaction platforms for the growth of 2D metal oxides: Tin-facilitated growth of 2D manganese-based oxides	Abigail Goff	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
High-Q phonon-polaritons in geometrically confined MoO_3	Jiong Yang	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
The effect of pinholes on Josephson transport in Al/AlO_x/Al junctions	Karen Bayros	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Strong electron correlations in a 2D kagome metal-organic framework	Benjamin Lowe	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Density interface dominates magnetotransport in 2D viscous electron flow	Aydin Keser	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Hexagonal metal oxide (MOene) for novel electronic technology	Baoyue Zhang	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Exciton-polaron interactions in monolayer WS_2	Jack Muir	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Exciton-polariton dynamics in perovskite microcavity structures	Mitko Oldfield	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Arbitrary phase control of ground-exciton state coherence in monolayer WS_2	Mitchell Conway	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Landau level crossings in bilayer graphene	Abhay Gupta	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Exploring the microscopic Moire physics through low-wavenumber Raman spectroscopy	Shao-Yu Chen	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Quantum transport in tellurium	Weiyao Zhao	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
From topological single crystals to amorphous "topological" materials	Weiyao Zhao	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Formation of stable surface oxide in $MnBi_2Te_4$ thin films	Golrokh Akhgar	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Increased phase coherence length in a porous topological insulator	Golrokh Akhgar	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Directional propagation of non-Hermitian exciton-polariton wave packets	Yow-Ming (Robin) Hu	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Spatial control over the Z_2 invariant and surface conductivity of a strong 3D topological insulator	Abdulhakim Bake	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Ultrafast carrier transfer at a plasmonic metal-semiconductor interface	Priyank Kumar	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Nonlinear van der Waals metasurfaces	Mudassar Nauman	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Transferring large-area topological insulator thin films onto magnetic insulators	Matthew Gebert	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
P-type ohmic contact to monolayer WSe_2 field-effect transistors using high electron affinity MoO_3	Yi-Hsun Chen	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Electron-phonon interactions at boundary and surface of single bilayer 2D Bi (111)	Enamul Haque	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Microscopic theory of excitons bound by light	Sangeet Kumar	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Correlation-induced magnetism in substrated supported 2D metal-organic frameworks	Bernard Field	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Skyrmions in BFO: A computational approach	Tiziana Musso	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Understanding of phase stability and topological transitions of ferroelectric bubble domains	Peggy Qi Zhang	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
FLEET Translation Program	Michael Harvey	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Equatorial waves in bubble-wrapped superfluids	Dmitry Efimkin	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Anomalous dispersion and negative-mass dynamics of exciton polaritons with dissipative light-matter coupling	Eliezer Estrecho	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Topological transitions in epitaxial ultrathin ferroelectric heterostructures	Vivasha Govinden	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Dipolar BECs in a rotating magnetic fields	Alexander Armstrong	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Microscopic derivation of Hubbard parameters for quantum gas microscopes	Haydn Adlong	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Micromagnets dramatically enhance effects of viscous hydrodynamic flow in two-dimensional electron fluid	Jack Engdahl	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Coherent spectroscopy of driven WS_2 monolayers	Stuart Earl	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Interactions between exciton-polaritons in a 2D semiconductor microcavity	Kenneth Choo	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Two-dimensional oxide from surface of liquid eutectic chalcogen mixture	Patjaree Aukarasereenont	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Enhancing ground state population and macroscopic coherence of WS_2 polaritons through engineered confinement at room temperature	Eliezer Estreho, Matthias Wurdack	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Topological insulating state in noncollinear antiferromagnetic $CoBi_2Te_4$	Ziyuan Zhao	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Controlling electron-electron correlations in gateable 2D metal-organic nanostructures	Julian Ceddia	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Nonequilibrium steady states of exciton-polariton gases	Tim Edmonds	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Large magnetic gap in a designer ferro-magnetic-topological insulator-ferromagnetic heterostructure	Qile Li	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Critical velocity for a superfluid flow about a finite obstacle	Charlotte Quirk	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Effect of defects in three-dimensional topological insulators	Son Ho	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Tight binding parameters for two-dimensional carbon	Jackson Smith	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Weyl helicon-phonon waves	Dmitry Efimkin	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Quench dynamics of a strongly interacting Fermi gas	Paul Dyke	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Functional materials production via liquid metals	Mohammad Ghasemian	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Ionic liquid gating of strained Gd-doped $SrTiO_3$ thin films	Abu Parvez	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Coherent dynamics in strongly correlated materials	Rishabh Mishra	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Dynamics in a spin imbalanced gas of Li_6	Allan Pennings	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Theory of exciton condensation in biased bilayer graphene	Harley Scammell	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Probing spin physics in GaAs using quantum point contacts	Karina Hudson	FLEET 2022 Annual Workshop	Australia	05-07-2022	Poster	
Fermi polarons from cold atoms to doped semiconductors	Jesper Levinsen	Fermi polarons from cold atoms to doped semiconductors	France	06-07-2022	Research seminar	*

** indicates invited presentations to international research community*

PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Progress towards artificial graphene	Daisy Qingwen Wang	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
Tuning the electronic and optical properties of phosphorene: straining, stacking and twisting	Francois Peeters	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
DFT Modelling of multiferroic In_2Se_3/Fe_3GeTe_2 and other van der Waals heterostructures	Michelle Spencer	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
Plasmonic and dielectric nanoantennas coupled to 2D materials	Stefan Maier	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
Electronic properties of the charge density wave material 1T-$TiSe_2$	Joshua Gray	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
Correlation-induced magnetism in substrated supported 2D metal-organic frameworks	Bernard Field	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
Liquid metal (LM) and LM alloy reaction platforms for the growth of 2D metal oxides: Tin-facilitated growth of 2D manganese-based oxides	Abigail Goff	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
Spatial control over the Z2 invariant and surface conductivity of a strong 3D topological insulator	David Cortie	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
Theory of exciton condensation in biased bilayer graphene	Harley Scammell	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
Some theoretical results for twisted bilayer graphene near magic angle	Shaffique Adam	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
Quantum materials for FLEET technologies: A neutron scattering perspective:	Kirrily Rule	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Nonlinear responses of topological materials	Dimi Culcer	FLEET 2022 Annual Workshop	Australia	06-07-2022	Research workshop / symposium	
Exploring liquid metals' interfaces to synthesize nanostructured materials	Maedehsadat Mousavi	RACI 2022 National Congress	Australia	07-07-2022	Conference presentation	
Non-invasive neural interfaces with epitaxial graphene	Francesca Iacopi	FLEET 2022 Annual Workshop	Australia	07-07-2022	Research workshop / symposium	
Phonon-polariton propagation in hBN and MoO_3 - effect of boundaries	Jiong Yang	FLEET 2022 Annual Workshop	Australia	07-07-2022	Research workshop / symposium	
Investigation of bulk-edge interaction and spin-filtered transport in two-dimensional planar bismuthene	Yuefeng Yin	FLEET 2022 Annual Workshop	Australia	07-07-2022	Research workshop / symposium	
Influence of device geometry and imperfections on the interpretation of transverse magnetic focusing experiments	Yik Kheng Lee	FLEET 2022 Annual Workshop	Australia	07-07-2022	Research workshop / symposium	
Two-dimensional oxide from surface of liquid eutectic chalcogen mixture	Patjaree Aukarasereenont	FLEET 2022 Annual Workshop	Australia	07-07-2022	Research workshop / symposium	
Quantum transport in topological nanoribbon with disorders	Hong Liu	FLEET 2022 Annual Workshop	Australia	07-07-2022	Research workshop / symposium	
Non-Hermitian topology in exciton-polariton systems	Eliezer Estrecho	FLEET seminar	Online - domestic audience	13-07-2022	Research seminar	
Turbulent relaxation to equilibrium in a quantum vortex gas	Matthew Reeves	Boulder Summer School in Condensed Matter Physics -- Hydrodynamics Across Scales	USA	20-07-2022	Poster	
The topological transistor as a low-voltage switch	Michael Fuhrer	CT.QMAT 2022	Germany	27-07-2022	Conference presentation	*

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Self-acceleration of non-Hermitian exciton-polariton wave packets	Yow-Ming (Robin) Hu	11th International Conference on Spontaneous Coherence in Excitonic Systems	USA	08-08-2022	Poster	
Exploring new quantum phenomena in graphene-based van der Waals hetero-structures	Feixiang Xiang	FLEET seminar	Online - domestic audience	10-08-2022	Research seminar	
Strong correlations in a two-dimensional kagome metal-organic framework	Benjamin Lowe	Molecule based quantum science and technology	Switzerland	22-08-2022	Conference presentation	
Lab tour and discussion of FLEET	Michael Fuhrer	Visit: Hon. Paul Fletcher (Shadow Minister for Science) to Monash	Australia	25-08-2022	Technical briefing - to government / industry	
Rotating bubble shaped Bose-Einstein condensates	Angela White	Australia - New Zealand cold atoms seminars	Online - international audience	26-08-2022	Research seminar	*
Non-Hermitian effects in exciton polaritons	Eliezer Estrecho	DPG Meeting	Germany	05-09-2022	Conference presentation	*
Old and new approaches for designing and detecting topological signatures in quantum wires	Karina Hudson	Materials Science and Engineering Seminar	Australia	08-09-2022	Research seminar	
Functional topological defects in ferroelectric and multiferroic materials	Jan Seidel	The 22nd International Vacuum Congress (IVC-22)	Japan	11-09-2022	Conference presentation	*
Non-Hermitian effects in exciton polaritons	Eliezer Estrecho	Department Seminar	Germany	13-09-2022	Research seminar	*
Ferrotronics – Ferroelectrics for electronic data storage	Pankaj Sharma	MST Social Seminar	Australia	15-09-2022	Colloquium	
Exceptional points and non-Hermitian topology of exciton polaritons	Eliezer Estrecho	Group seminar	Online - international audience	22-09-2022	Research seminar	*
Exploring exciton polaritons in different platforms	Eliezer Estrecho	ARC CoE Exciton Science Spring Workshop	Australia	29-09-2022	Research seminar	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Stability of ferroelectric bubble domains	Peggy Qi Zhang	Research Seminar	Australia	30-09-2022	Research seminar	
Liquid metal-based synthesis of functional 2D materials for electronic applications	Torben Daeneke	Engineering Special Seminar	China	30-09-2022	Public lecture	*
FLEET submission to 2022 Critical Technologies list	Michael Fuhrer, Errol Hunt, Michael Harvey	List of critical technologies in the national interest: 2022 update	Australia	30-09-2022	Technical briefing - to government / industry	
Josephson junctions: Modelling their fabrication and electrical response at the atomic scale	Jared Cole	Quantum group research seminar, IMEC	Online - international audience	05-10-2022	Technical briefing - to government / industry	*
Interfaces to synthesize nanostructured materials	Maedehsadat Mousavi	FLEET seminar	Online - domestic audience	05-10-2022	Research seminar	
Multidimensional coherent spectroscopy to reveal interactions in strongly correlated materials	Rishabh Mishra	Gordon Research Conference	USA	08-10-2022	Poster	
Strong correlations in a two-dimensional kagome metal-organic framework	Benjamin Lowe	FZU research seminar	Online - international audience	11-10-2022	Research seminar	*
WTe_2 - an excitonic insulator?	Liam Watson	Group Meeting - Amadeo Lopez Vázquez de Parga - IMDEA / UAM	Spain	12-10-2022	Research seminar	*
2D correlated-electron metal-organic nanomaterials	Agustin Schiffrin	Colloquium of the School of Mathematics and Physics of the University of Queensland	Australia	13-10-2022	Colloquium	
Functional topological defects in ferroelectric and multiferroic materials	Jan Seidel	The 13th APCTP Workshop on Multiferroics, Asia Pacific Center for Theoretical Physics (APCTP)	China	13-10-2022	Conference presentation	*

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Functional organic nanostructures on surfaces: Towards atomically designed nanoelectronics, optoelectronics and catalysis	Agustin Schiffrin	4th International Conference on Emerging Advanced Nanomaterials ICEAN 2022	Australia	18-10-2022	Conference presentation	*
Nanoscale polar interfaces for non-volatile data storage	Pankaj Sharma	4th International Conference on Emerging Advanced Nanomaterials ICEAN 2022	Australia	19-10-2022	Conference presentation	*
Dirac fermions at the interfaces	Semonti Bhattacharyya	FLEET seminar	Online - domestic audience	19-10-2022	Research seminar	
Manipulating anisotropic polaritons in layered materials	Qingdong Ou	4th International Conference on Emerging Advanced Nanomaterials ICEAN 2022	Australia	19-10-2022	Conference presentation	*
Nanowires, quantum phase slips and electromagnetic duality in quantum circuits	Jared Cole	4th International Conference on Emerging Advanced Nanomaterials ICEAN 2022	Australia	20-10-2022	Conference presentation	*
FLEET mid-term review experience	Tich-Lam Nguyen	ARC CoE Staff Forum	Australia	31-10-2022	Presentation to NGOs / professional organisations	
FLEET mentoring	Tich-Lam Nguyen	ARC CoE Staff Forum	Australia	31-10-2022	Presentation to NGOs / professional organisations	
Intrinsic anomalous Hall effect and spin orbit torques in amorphous transition metal silicides and germanides	Julie Karel	Magnetism and Magnetic Materials Conference	USA	02-11-2022	Conference presentation	
Idea Factory	Matthew Davis, Michael Harvey	Idea Factory	Australia	07-11-2022	Research workshop / symposium	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Classical field models for multimode tunnelling junctions	Matthew Reeves	Otago Quantum Lunch	New Zealand	11-11-2022	Research seminar	*
P-Type nonrectifying contact to monolayer WSe_2 field-effect transistors enabled by high electron affinity amorphous MoO_3	Yi-Hsun Chen	Recent Progress in Graphene and Two-dimensional Materials Research (RPGR) Conference 2022	Taiwan	14-11-2022	Conference presentation	
Using epitaxy to engineer magnetism in high entropy perovskites	Michael Lord	PGSOC annual poster competition 2022	Australia	17-11-2022	Poster	
Stability of ferroelectric bubble domains (Monash University)	Peggy Qi Zhang	FLEET Seminar	Australia	17-11-2022	Research seminar	
Stabiilty of ferroelectric bubble domains (RMIT University)	Peggy Qi Zhang	FLEET Seminar	Online - international audience	18-11-2022	Research seminar	
Chiral excitonic order from twofold van Hove singularities in kagome metals	Harley Scammell	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	21-11-2022	Conference presentation	*
Low dimensional quantum magnets often exhibit exotic and unconventional ground states	Kirrily Rule	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	21-11-2022	Conference presentation	*
Creating artificial bandstructure in patterned GaAs	Oleh Klochan	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	21-11-2022	Conference presentation	*
Coulomb drag in two-layer systems	Hong Liu	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	21-11-2022	Conference presentation	*
Field-controlled cascade of soliton layers in epitaxial MnSi	Grace Causer	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Electrical manipulations of silicon hole qubits	Zhanning Wang	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Surface transport behavior in bulk-insulating 3D topological insulators	Karen Livesey	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Device design for detecting topological signatures in quantum wires	Weiyao Zhao	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Micromagnets dramatically enhance effects of viscous hydrodynamic flow in two-dimensional electron fluid	Jack Engdahl	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Chiral excitonic order from twofold van Hove singularities in kagome metals	Harley Scammell	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Equatorial waves in bubble-trapped superfluids	Karen Livesey	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Field-controlled cascade of soliton layers in epitaxial MnSi	Grace Causer	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Analytic theories for magnetic skyrmion	Karen Livesey	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Conference presentation	*

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Geometric control of universal hydrodynamic flow in a two dimensional electron fluid	Daisy Qingwen Wang	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Conference presentation	*
The topological transistor as a low-voltage switch	Michael Fuhrer	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Conference presentation	*
Wave packet dynamics in a non-Hermitian exciton-polariton system	Yow-Ming (Robin) Hu	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Spin gapless semiconductors as a platform for the co-existence of Weyl and Dirac Fermions	Frank Yun	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Nonlinear quantum electrodynamics in dirac materials	Aydin Keser	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Optimisation of electron spin qubits in electrically driven multi-donor quantum dots	Abhikbrata Sarkar	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	22-11-2022	Poster	
Experimental approaches to low disorder, long quantum wires	Krittika Kumar	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	23-11-2022	Conference presentation	*
Weyl helicon-phonon waves	Dmitry Efimkin	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	24-11-2022	Conference presentation	*

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Chester supersolid of spatially indirect excitons in double-layer semiconductor heterostructures	David Neilson	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	24-11-2022	Conference presentation	*
Many body localization in two dimensions	Shaffique Adam	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	24-11-2022	Conference presentation	*
Tunable many-body interactions and induced superconductivity in a helical	Bent Weber	Gordon Godfrey workshop: Spins, Topology and Strong Electron Correlations	Australia	24-11-2022	Conference presentation	*
Stability of ferroelectric bubble domains	Peggy Qi Zhang	2022 International Symposium on Advanced Materials & Sustainable Technologies (AM&ST 22)	Australia	01-12-2022	Conference presentation	*
Ferrotronics – Ferroelectrics for electronic data storage	Pankaj Sharma	2022 International Symposium on Advanced Materials & Sustainable Technologies (AM&ST 22)	Australia	01-12-2022	Conference presentation	*
Liquid metal-based synthesis of functional 2D materials for electronic applications	Torben Daeneke	2022 International Symposium on Advanced Materials & Sustainable Technologies (AM&ST 22)	Australia	01-12-2022	Conference presentation	*
Media & Comms: "Talk science to me: let's promote research"	Errol Hunt	FLEET ECR Workshop	Australia	05-12-2022	Research workshop / symposium	
Topological non-colinear magnetism in reduced sample dimensions	Grace Causer	24th Australian Institute of Physics Congress	Australia	13-12-2022	Conference presentation	*
Wave packet dynamics in a non-Hermitian exciton-polariton system	Yow-Ming (Robin) Hu	24th Australian Institute of Physics Congress	Australia	13-12-2022	Poster	
Prediction of exciton condensation in biased bilayer graphene	Oleg Sushkov	24th Australian Institute of Physics Congress	Australia	14-12-2022	Conference presentation	*

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PRESENTATION TITLE	SPEAKER	EVENT NAME	COUNTRY	DATE	PRESENTATION TYPE	NOTES
Stability of ferroelectric bubble domains	Peggy Qi Zhang	Research Seminar	Australia	14-12-2022	Research seminar	
Time evolution of spatial coherence in exciton-polariton condensates	Bianca Fabricante	24th Australian Institute of Physics Congress	Australia	14-12-2022	Conference presentation	
Decay of sound waves in a ring-shaped Bose-Einstein condensate	Andrew Groszek	24th Australian Institute of Physics Congress	Australia	14-12-2022	Conference presentation	
Excitons bound by light	Sangeet Kumar	24th Australian Institute of Physics Congress	Australia	15-12-2022	Poster	

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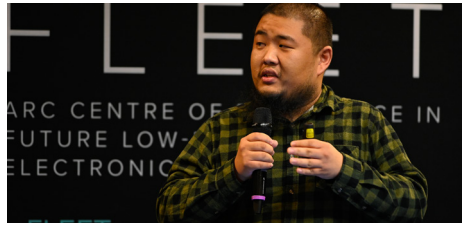
FLEET ORGANISED WORKSHOP / SEMINAR TITLE	EVENT TYPE	DATES	LOCATION
Ivan Verzhbitskiy - Tailoring a 2D semiconductor by electric fields	FLEET seminar	11-02-2022	Online
US-Australia Transpacific Colloquium - Ehud Altman: Phase transitions and critical states of monitored quantum systems	FLEET seminar	23-02-2022	Online
US-Australia Transpacific Colloquium - Nadya Mason: Electronic transport in strain-engineered graphene	FLEET seminar	23-03-2022	Online
Translating FLEET research to industry	Research development	24-03-2022	Online
Matthias Wurdack: Properties and dynamics of exciton polaritons in atomically-thin WS_2 crystals at room temperature	FLEET seminar	11-05-2022	Online
ANU IP - Michael Harvey	Research development	13-05-2022	ANU
US-Australia Transpacific Colloquium - Anna Marie Ray: Optical lattice clocks - from timekeepers to spies of the quantum realm	FLEET seminar	25-05-2022	Online
Harley Scammell: Exciton condensation in bilayer graphene	FLEET seminar	10-06-2022	Online
Luca Sortino: All-dielectric nanophotonics with transition metal dichalcogenide semiconductors	FLEET seminar	21-06-2022	Monash University
US-Australia Transpacific Colloquium: Lu Li - Quantum oscillations of electrical resistivity in an insulator	FLEET seminar	22-06-2022	Online
Condensed Matter Physics Colloquium UNSW: Enrique Diez - Broken symmetries in heterostructures based on 2D materials	FLEET seminar	23-06-2022	UNSW Sydney
FLEET ICPS Satellite meeting	International conference	01-07-2022	Austinmer, NSW
FLEET 2022 Annual Workshop	FLEET research workshop	04-07-2022	University of Wollongong
ECR Workshop: veski kickstart	Industry engagement, Professional development	07-07-2022	University of Wollongong
ECR Workshop: science careers	Industry engagement, Professional development, Research development	08-07-2022	University of Wollongong
Eliezer Estrecho: Non-Hermitian topology in exciton polariton systems	FLEET seminar	11-07-2022	Online
inSTEM	Equity & Diversity, Professional development	20-07-2022	Brisbane
US-Australia Transpacific Colloquium - Susanne Stemmer: Topological insulator states in thin films of cadmium arsenide	FLEET seminar	27-07-2022	Online
The National Science Quiz. More than trivia	Public event	07-08-2022	The Edge, Federation Square, Melbourne
Feixiang Xiang UNSW	FLEET seminar	10-08-2022	Online

FLEET ORGANISED WORKSHOP / SEMINAR TITLE	EVENT TYPE	DATES	LOCATION
Michael Harvey: UNSW IP	FLEET seminar, Research development	11-08-2022	UNSW Sydney
US-Aust colloquium - Sergey Frolov: Superconductors and semiconductors, nanowires and majorana, research and integrity	FLEET seminar	24-08-2022	Online
Dr Karina Hudson: Old and new approaches for designing and detecting topo-logical signatures in quantum wires.	FLEET seminar	08-09-2022	Monash University
Prof Igor Aranovich: Quantum nanophotonics with hexagonal boron nitride	FLEET seminar	13-09-2022	Monash University
Michael Harvey: RMIT IP	FLEET seminar, Research development	19-09-2022	RMIT University
Michael Harvey: Swinburne IP	FLEET seminar, Research development	20-09-2022	Swinburne University of Technology
Michael Harvey: Monash IP	FLEET research workshop, Research development	21-09-2022	Monash University
US-Australia Transpacific Colloqium - Rafael Fernandes: The rich landscape of intertwined electronic phases in quantum materials	FLEET seminar	28-09-2022	Online
Maedehsadat Mousavi: Exploring liquid metals' interfaces to synthesize nanos-tructured materials	FLEET seminar	05-10-2022	Online
Dr Semonti Bhattacharyya: Dirac fermions at the interfaces	FLEET seminar	19-10-2022	Online
US-Australia Transpacific Colloquium - Jennifer Cano: Engineering topological phases with a superlattice potential	FLEET seminar	26-10-2022	Online
Idea Factory	Industry engagement, Professional development	07-11-2022	Breakfree Grand Pacific, Caloundra
Dr Peggy Zhang: Stability of ferroelectric bubble domains (Monash University)	FLEET seminar	17-11-2022	Monash University
Dr Peggy Zhang: Stabiilty of ferroelectric bubble domains (RMIT)	FLEET seminar	18-11-2022	RMIT University
2022 Gordon Godfrey Workshop: Spins, topology and strong electron correlations	International conference	21-11-2022	UNSW Sydney
FLEET ECR Workshop	Professional development	05-12-2022	RMIT University
FLEET annual strategic meeting	FLEET research workshop	05-12-2022	RMIT University



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NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
Home science - skittles rainbow	03-01-2022	Home science activities		
Meeting with Uniseed	12-01-2022	Industry engagement		
FLEET lab tour	19-01-2022	Lab tour	Sydney, NSW	
Einstein-a-go-go	21-01-2022	Presentation to the public		
Media interview, Doomsday Clock	21-01-2022	Outreach activity preparation, Presentation to the public		
Technical briefing to IP Group	25-01-2022	Briefing to industry		Public 2
Meeting with Cathy Foley	27-01-2022	Industry engagement		
Holography Project	31-01-2022	Outreach activity preparation, Lab-based activities		
Press release preparation	31-01-2022	Press release preparation		
Hosting lab tours for members of parliament	01-02-2022	Lab tour, Briefing to government, Government outreach	Wollongong, NSW	Public 8
Meeting with OTraces (USA)	03-02-2022	Industry engagement		
JMSS-FLEET unit Intro presentation	07-02-2022	Presentation to students	Clayton, VIC	School students 35
2022 Around-the-Clock Around-the-Globe Magnetics Conference	09-02-2022	Research exhibition, Online communications, Engagement with research networks		
Holo-project	16-02-2022	Outreach activity preparation, Lab-based activities		
JMSS-FLEET unit Transistor talk	18-02-2022	Presentation to students	Clayton, VIC	School students 35
Quantum Australia Conference networking event	23-02-2022	Industry engagement		
Science Meets Parliament	08-03-2022	Government outreach	Online	Public 3
mentoring of high school student	10-03-2022	Presentation to students	Sydney, NSW	
Meeting with OzMinerals	15-03-2022	Industry engagement		
JMSS-FLEET unit Double Slit Prac	22-03-2022	Presentation to students	Clayton, VIC	School students 38
Meeting with AusTrade	28-03-2022	Industry engagement		
Holography project	30-03-2022	Outreach activity preparation		
Catapult Activity Worksheet	04-04-2022	Home science activities, Outreach activity preparation		

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
JMSS-FLEET unit presentation cold atoms	07-04-2022	Presentation to students	Clayton, VIC	School students 35 School teachers 2
Meeting with Quantum Brilliance	08-04-2022	Industry engagement		
Catapult demonstration - extension activity	13-04-2022	Outreach activity preparation		
Meeting with NSW Trade Commissioner, China	20-04-2022	Industry engagement		
Meeting with Archer representative	03-05-2022	Briefing to industry		
Meeting with N5 Sensors (USA)	06-05-2022	Industry engagement		
Pint of Science Melbourne	09-05-2022	Presentation to the public	Melbourne, VIC	Public 50
Melbourne Knowledge Week	10-05-2022	Outreach activity preparation, Presentation to the public, Public event	Melbourne, VIC	Public 350
JMSS-FLEET unit graphene prac	12-05-2022	Outreach activity preparation, Presentation to students, School-based activities	Clayton, VIC	School students 35 School teachers 1
Meeting with Sensors division of Robert Bosch GmbH	17-05-2022	Industry engagement		
UNSW lab tour	18-05-2022	Lab tour, Engagement with research networks	Sydney, NSW	Public 3
JMSS Regional Exchange workshop	18-05-2022	Outreach activity preparation, Presentation to students, School-based activities	Clayton, VIC	School students 1 School teachers 2
Hosting lab tour for ARC CEO	19-05-2022	Lab tour, Briefing to government, Government outreach	Wollongong, NSW	Public 6
Vic Physics Girls in STEM breakfast	19-05-2022	School-based activities	Clayton, VIC	School teachers 6
JMSS FLEET unit topology presentation	20-05-2022	Presentation to students, School-based activities	Clayton, VIC	School students 35 School teachers 1
Mulgrave Library children workshop Forces & Energy	21-05-2022	Public event	Mulgrave, VIC	School students 18
Moyston primary school outreach workshops	23-05-2022	Presentation to students, School-based activities	Moyston, VIC	School students 20 School teachers 2
STEM Professionals in Schools Presentation	24-05-2022	Presentation to students	Eaglehawk, VIC	School students 28 School teachers 1

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
Great Western Primary force/energy workshop	24-05-2022	Presentation to students, School-based activities	Great Western, VIC	School students 20 School teachers 2
Horsham College Year 11 Careers	24-05-2022	Presentation to students, School-based activities	Horsham, VIC	School students 18 School teachers 1
Mulgrave library children workshop: Electricity, fire and brimstone	28-05-2022	Presentation to students, Public event, Workshop	Mulgrave, VIC	School students 24
Discussion with ColdQuanta about the ColdQuanta–Swinburne Quantum Technology Centre	01-06-2022	Industry engagement, Briefing to industry	Hawthorn, VIC	Public 5
3 Minute Thesis - Faculty of Science round	09-06-2022	Presentation to the public	Clayton, VIC	Public 130
JMSS Immersion Day	10-06-2022	Presentation to students, School-based activities	Clayton, VIC	School students 118 School teachers 6
Horsham College Year 7 outreach workshops	14-06-2022	Presentation to students, School-based activities	Horsham, VIC	School students 170 School teachers 10
Meet the Scientist	16-06-2022	Lab tour, Outreach activity preparation, Presentation to students	Canberra, ACT	School students 30
JMSS work experience	20-06-2022	Lab-based activities	Clayton, VIC	
JMSS work experience	21-06-2022	School-based activities	Clayton, VIC	School students 2
JMSS-FLEET unit - FLEET lab tour	26-06-2022	Presentation to students, School-based activities	Clayton, VIC	School students 35 School teachers 1
International conference on the physics of semiconductors 2022	28-06-2022	Engagement with STEM network		Public 100
MySci	28-06-2022	Presentation to students, School-based activities	Clayton, VIC	School students 130
Talk at Max Planck Institute of Quantum Optics for PhD students	28-06-2022	Presentation to students	Germany	Public 30
Hands-on Workshop at City Council Library	29-06-2022	Public event, Workshop	Clayton, VIC	Public 20
Clayton Library school holiday workshops	29-06-2022	Presentation to the public, School-based activities	Clayton, VIC	School students 52
Experimentfest	30-06-2022	School-based activities	Wadalba, NSW	School students 20
Discussion with Breakthrough Victoria about the ColdQuanta–Swinburne Quantum Technology Centre	01-07-2022	Briefing to government		Public 2

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
Hosting lab tours for annual workshop	04-07-2022	Lab tour	Wollongong, NSW	
UQ Junior Physics Odyssey	08-07-2022	Presentation to students	Brisbane, QLD	School students 75
Quick Math Help	14-07-2022	Outreach activity preparation		
inSTEM	20-07-2022	Engagement with STEM network	Brisbane, QLD	Public 80
Meeting with Peter Jacobson UQ	21-07-2022	Industry engagement	Brisbane, QLD	
Meeting with NSW Semiconductor Sector Services Bureau	26-07-2022	Industry engagement	Sydney, NSW	
Meeting with Blackbird VC	28-07-2022	Industry engagement		
Deadly Science	29-07-2022	Presentation to students, School-based activities	Batchelor, NT	School students 8 School teachers 1
Swinburne Open Day	31-07-2022	Open day,Lab tour	Hawthorn, VIC	Public 40
Training Mobius strip	01-08-2022	School-based activities		
Introducing sensing technology to students of Balwyn North primary school	05-08-2022	Online communications	Balwyn North, VIC	School students 20 School teachers 1
National Science Week Glass Article	06-08-2022	Online communications	Online	
Monash University Open Day setup	06-08-2022	Open day	Clayton, VIC	
Monash Open Day	07-08-2022	Open day, Outreach activity preparation, Presentation to students, Public event	Clayton, VIC	Public 190 School students 50
National Science Quiz	07-08-2022	Presentation to the public	Melbourne, VIC	Public 1200
US congress visit	09-08-2022	Briefing to government	Canberra, ACT	
JMSS Interviews	09-08-2022	Entrance interviews for JMSS	Clayton, VIC	
Three minutes thesis competition	10-08-2022	Engagement with STEM network	Canberra, ACT	
UNSW lab tour - Jincheol Kim	10-08-2022	Lab tour, Engagement with research networks	Sydney, NSW	
RMIT Open Day	14-08-2022	Open day	Melbourne, VIC	Public 150
Sydney Science Trail	15-08-2022	Presentation to the public, Presentation to students, Public event	Sydney, NSW	School students 720 School teachers 14 Public 1000
Sydney Science Trail	16-08-2022	Presentation to the public	Sydney, NSW	

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
Hughesdale primary school energy workshop	18-08-2022	Presentation to students, School-based activities	Hughesdale, VIC	School students 280 School teachers 6
Sydney Science Trail	20-08-2022	Presentation to the public	Sydney, NSW	Public 200
Meeting with Galileo Ventures	24-08-2022	Industry engagement		
Meeting with ANFF	24-08-2022	Industry engagement		
University of Newcastle Open Day	27-08-2022	Open day	Newcastle, NSW	School students 40
Meeting with Uniseed	31-08-2022	Industry engagement		
Meeting with IP Group	31-08-2022	Industry engagement		
Deadly Science Kalkaringi	01-09-2022	Presentation to students, School-based activities	Kalkaringi, NT	School students 10 School teachers 1
UNSW Open Day	03-09-2022	Lab tour, Open day, Presentation to students, Public event	Sydney, NSW	Public 400 School students 190
VINGROUP meeting	05-09-2022	Engagement with STEM network		
Participated in the QLD Innovation roundtable	14-09-2022	Industry engagement		
ANU Preschools visit	23-09-2022	School-based activities	Canberra, ACT	
CONASTA	25-09-2022	Research exhibition, Teachers' workshop	Canberra, ACT	School teachers 120
Young Tall Poppy	10-10-2022	Press release preparation		
Young Tall Poppy promotion material prep	10-10-2022	Online communications		
Monash global engagement - Vietnamese delegation	11-10-2022	Government outreach	Clayton, VIC	Public 11
Meeting with Industry Minister Ed Husic	13-10-2022	Industry engagement		
Meeting with Uniseed	14-10-2022	Industry engagement		
Synchrotron Open Day	16-10-2022	Public event	Clayton, VIC	Public 150
Meeting with Anthony Murfett	18-10-2022	Government outreach		
Meeting with Don English	18-10-2022	Government outreach		
CSIRO STEM Professional in School Regional Remote Program	18-10-2022	Teachers' workshop	Maitland, NSW	School teachers 1
Ecolinc Women in STEM	19-10-2022	Presentation to students	Clayton, VIC	School students 100
UNSW lab tour	19-10-2022	Lab tour, Briefing to industry	Sydney, NSW	Public 4
Meeting with Blackbird VC	20-10-2022	Industry engagement		

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
VAPN Launch	20-10-2022	Public event	Melbourne, VIC	
Meeting with Steve Duvall (Silanna)	21-10-2022	Industry engagement		
Meeting with representatives from the MacDiarmid Institute	28-10-2022	Industry engagement		
100 Climate Conversations	28-10-2022	Outreach activity preparation, Presentation to the public, Presentation to students, Online communications, Public event	Sydney, NSW	Public 25 School students 100 School teachers 4
CoE Forum	31-10-2022	Workshop	Sydney, NSW	Public 30
Writing scientific article	01-11-2022	Writing		
ECN Symposium	02-11-2022	Presentation to the public, Engagement with research networks	Clayton, VIC	
CSIRO STEM Professionals In Schools Regional Remote Program	02-11-2022	Teachers' workshop	Horsham, VIC	School teachers 1
Monash PhD Scholarships Appeal	03-11-2022	Online communications	Online	
National Quantum Framework Consultation	04-11-2022	Industry engagement		
STELR Shaping Your Future	08-11-2022	Presentation to students	Brisbane, QLD	School students 30
High school visit to RMIT	09-11-2022	Presentation to students	Melbourne, VIC	School students 30
Hughesdale primary school quantum workshop	14-11-2022	Presentation to students, School-based activities	Hughesdale, VIC	School students 155 School teachers 6
Writing scientific article	15-11-2022	Writing		
STAVCON (Vic Science Teacher conference)	28-11-2022	Teachers' workshop	Melbourne, VIC	School teachers 6
Meeting with Fairfax County Economic Development Agency	30-11-2022	Industry engagement	USA	Public 7
Meeting with SciPhD	30-11-2022	Industry engagement		Public 2
Quantum World Congress	30-11-2022	Industry engagement	USA	
Defence Industry Showcase	30-11-2022	Briefing to industry	Canberra, ACT	
Meeting with Lockheed Martin Quantum	01-12-2022	Industry engagement	USA	Public 2
IONS KOALA 2022	05-12-2022	Engagement with STEM network	Adelaide, SA	
Meeting with AusIndustry Entrepreneurs Program	12-12-2022	Industry engagement		Public 1

NAME OF EVENT	DATE	ACTIVITY TYPE	LOCATION	AUDIENCE
Editing and reviewing FLEET home experiment ideas	16-12-2022	Home science activities		
UNSW info day	16-12-2022	Open day	Sydney, NSW	School students 20
Lab tour/demonstrations	20-12-2022	Lab tour, Outreach activity preparation, Presentation to students	Clayton, VIC	School students 1
Preparation of news release articles in 2022	30-12-2022	Press release preparation		

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NON-PEER REVIEWED

DATE	TITLE	AUTHOR/S	PUBLISHER	LINKS
02-02-2022	Beyond sci-fi: Researchers manipulate liquid metals without contact	Xiaolin Wang	FLEET research blog	fleet.org.au/blog/beyond-scifi-manipulating-liquid-metals-without-contact/
04-02-2022	Liquid metals, surface patterns, and the romance of the three kingdoms	Kourosh Kalantar-zadeh	FLEET research blog	fleet.org.au/blog/liquid-metals-surface-patterns-and-the-romance-of-the-three-kingdoms/
02-03-2022	Bonding exercise: Quantifying biexciton binding energy	Jeff Davis, Mitchell Conway	FLEET Research blog	fleet.org.au/blog/bonding-exercise-quantifying-biexciton-binding-energy/
07-03-2022	A zigzag blueprint for topological electronics	Xiaolin Wang, Muhammad Nadeem	FLEET Research Blog	fleet.org.au/blog/a-zigzag-blue-print-for-topological-electronics/
16-03-2022	Together we're stronger: Developing a new layered material for future electronics	Michelle Spencer	FLEET Research Blog	fleet.org.au/blog/together-were-stronger-developing-a-new-layered-material-for-future-electronics/
03-04-2022	Making a ‘sandwich’ out of magnets and topological insulators, potential for lossless electronics	Mark Edmonds, Qile Li	FLEET Research Blog	fleet.org.au/blog/making-a-sandwich-out-of-magnets-and-topological-insulators-potential-for-lossless-electronics/
10-06-2022	Liquid platinum at room tempature: the 'cool' catalyst for a sustainable revolution in industrial chemistry	Kourosh Kalantar-zadeh, Jianbo Tang	FLEET Research Blog	fleet.org.au/blog/liquid-platinum-at-room-temperature-the-cool-catalyst-for-a-sustainable-revolution-in-industrial-chemistry/
21-06-2022	Topological superconductors: fertile ground for elusive Majorana particle	Xiaolin Wang, Lina Sang	FLEET Research Blog	fleet.org.au/blog/topological-super-conductors-fertile-ground-for-elusive-majorana-particle/
26-07-2022	The hetero-interface is the device: A computational approach	Nikhil Medhekar, Yuefeng Yin	FLEET research blog	fleet.org.au/blog/the-hetero-interface-is-the-device-a-computational-approach/
29-07-2022	INSTEM Conference: Towards a more diverse science community	Tich-Lam Nguyen, Yik Kheng Lee, Tenille Ibbotson	FLEET Research Blog	fleet.org.au/blog/instem-conference-towards-a-more-diverse-science-community/
08-08-2022	Manipulating interlayer magnetic coupling in van der Waals heterostructures	Lan Wang, Guolin Zheng, Sultan Albarakati	FLEET research blog	fleet.org.au/blog/manipulating-interlayer-magnetic-cou-pling-in-van-der-waals-heterostructures/
30-08-2022	What you see is what you get with pre-characterised TMDs	Mitchell Conway, Abigail Goff, Jack Muir	FLEET Research Blog	fleet.org.au/blog/what-you-see-is-what-you-get-with-pre-characterised-tmds-fleet-translation-program/
31-08-2022	Automation takes the misery out of scanning microscopy	Agustin Schiffrin, Benjamin Lowe	FLEET Research Blog	fleet.org.au/blog/automation-takes-the-misery-out-of-scanning-microscopy-fleet-translation-program/

DATE	TITLE	AUTHOR/S	PUBLISHER	LINKS
20-10-2022	Trapping polaritons in an engineered quantum box	Elena Ostrovskaya, Meera Parish, Matthias Wurdack	FLEET Research Blog	fleet.org.au/blog/trapping-polaritons-in-an-engineered-quantum-box/
20-10-2022	A drop in the sea of electrons: Understanding Fermi polarons and their interactions	Jeff Davis, Jack Muir	FLEET research blog	fleet.org.au/blog/a-drop-in-the-sea-of-electrons-understanding-fermi-polarons-and-their-interactions/
25-10-2022	Electron liquids on the cutting edge	Bent Weber	FLEET Research blog	fleet.org.au/blog/electron-liquids-on-the-cutting-edge-2/
27-10-2022	A new era of two-dimensional ferroelectrics	Jan Seidel, Peggy Schoenherr, Pankaj Sharma	FLEET research blog	fleet.org.au/blog/a-new-era-of-two-dimensional-ferroelec-trics/
09-11-2022	Magnetism or no magnetism? The influence of substrates on electronic interactions	Agustin Schiffrin, Nikhil Medhekar, Bernard Field	FLEET research blog	fleet.org.au/blog/magnetism-or-no-magnetism-the-influence-of-substrates-on-electronic-interactions/
15-11-2022	A chemical reaction as good as gold for future technologies	Agustin Schiffrin, Benjamin Lowe	FLEET Research blog	fleet.org.au/blog/a-chemical-reaction-as-good-as-gold/
17-11-2022	Extending LED device lifetime with liquid-metal printed oxides	Torben Daeneke, Patjaree Aukarasereenont	FLEET Research Blog	fleet.org.au/blog/fleet-translation-extending-led-device-lifetime-with-liquid-metal-printed-oxides/
23-11-2022	Zinc batteries, cheaper safer better	Priyank Kumar	FLEET Research Blog	fleet.org.au/blog/zinc-batteries-cheaper-safer-better-fleet-translation-program/
24-11-2022	Liquid-metal oxides opening routes to future technologies	Michael Fuhrer, Torben Daeneke, Abigail Goff	Nanotechnology World Association	nanotechnologyworld.org/magazine-november2022
29-11-2022	Learning to see yourself in an entrepreneur role	Maedehsadat Mousavi	FLEET Research Blog	fleet.org.au/blog/learning-to-see-yourself-in-an-entrepreneur-role-sunrise-innovation-festival/
09-12-2022	Creating quantum spark in primary students	Bernard Field, Jason Major, Enamul Haque, Kenneth Choo	FLEET Research Blog	fleet.org.au/blog/creating-a-quantum-spark-in-primary-students/
09-12-2022	Let it snow inside liquid metals	Kourosh Kalantar-zadeh, Nicola Gaston, Jianbo Tang	FLEET Research blog	fleet.org.au/blog/let-it-snow-in-side-liquid-metals/
15-12-2022	A shield for 2D materials that adds vibrations to reduce vibration problems	Michael Fuhrer, Semonti Bhattacharyya, Matthew Gebert	FLEET research blog	fleet.org.au/blog/a-shield-for-2d-materials-that-adds-vibrations-to-reduce-vibration-problems/

DATE	TITLE	AUTHOR/S	LINKS
02-02-2022	Beyond sci-fi: Researchers manipulate liquid metals without contact	Xiaolin Wang	eurekalert.org/news-releases/942237
04-02-2022	Liquid metals, surface patterns, and the romance of the three kingdoms	Kourosh Kalantar-zadeh	scimex.org/newsfeed/liquid-metals,-surface-patterns-and-the-romance-of-the-three-kingdoms
18-02-2022	Superfluids provide new insight into turbulence	Matthew Reeves	eurekalert.org/news-releases/943806
02-03-2022	Bonding exercise: Quantifying biexciton binding energy	Jeff Davis, Mitchell Conway	eurekalert.org/news-releases/945086
09-03-2022	A ‘zigzag’ blueprint for topological electronics	Alex Hamilton, Dimi Culcer, Michael Fuhrer, Xiaolin Wang, Muhammad Nadeem	eurekalert.org/news-releases/945881
17-03-2022	Together we’re stronger: Developing a new layered material for future electronics	Michelle Spencer	fleet.org.au/blog/together-were-stronger-developing-a-new-layered-material-for-future-electronics/
03-04-2022	Making a ‘sandwich’ out of magnets and topological insulators, potential for lossless electronics	Mark Edmonds, Qile Li	eurekalert.org/news-releases/948609
22-06-2022	Topological superconductors: Fertile ground for elusive Majorana ('angel') particle	Xiaolin Wang, Lina Sang, Muhammad Nadeem	scimex.org/newsfeed/topological-superconductors-fertile-ground-for-elusive-majorana-particle
08-08-2022	Manipulating interlayer magnetic coupling in van der Waals heterostructures	Lan Wang, Guolin Zheng, Sultan Albarakati	scimex.org/newsfeed/manipulating-interlayer-magnetic-coupling-for-future-spintronics
20-10-2022	Trapping polaritons in an engineered quantum box	Elena Ostrovskaya, Meera Parish, Matthias Wurdack	scimex.org/newsfeed/trapping-polaritons-in-an-engineered-quantum-box
20-10-2022	A drop in the sea of electrons: Understanding Fermi polarons and their interactions	Jeff Davis, Jack Muir	scimex.org/newsfeed/a-drop-in-the-sea-of-electrons-understanding-fermi-polarons-and-their-interactions
25-10-2022	Electron liquids on the cutting edge	Bent Weber	scimex.org/newsfeed/electron-liquids-on-the-cutting-edge
27-10-2022	A new era of two-dimensional ferroelectrics	Jan Seidel, Peggy Schoenherr, Pankaj Sharma	scimex.org/newsfeed/a-new-era-of-2d-ferro-electrics
09-11-2022	Magnetism or no magnetism? The influence of substrates on electronic interactions	Agustin Schiffrin, Nikhil Medhekar Bernard Field	scimex.org/newsfeed/magnetism-or-no-magnetism-the-influence-of-substrates-on-electronic-interactions
15-11-2022	A chemical reaction as good as gold for future technologies	Agustin Schiffrin, Benjamin Lowe	scimex.org/newsfeed/a-chemical-reaction-as-good-as-gold-for-future-technologies

DATE	TITLE	AUTHOR/S	LINKS
09-12-2022	I'm dreaming of a zinc Christmas?! Intricate 'snowflakes' created in liquid metal	Kourosh Kalantar-zadeh, Jianbo Tang	scimex.org/newsfeed/im-dreaming-of-a-zinc-christmas-intricate-snowflakes-created-in-liquid-metal
15-12-2022	A shield for 2D materials that adds vibrations to reduce vibration problems	Michael Fuhrer, Semonti Bhattacharyya, Matthew Gebert	scimex.org/newsfeed/a-shield-for-2d-materials-that-adds-vibrations-to-reduce-vibration-problems

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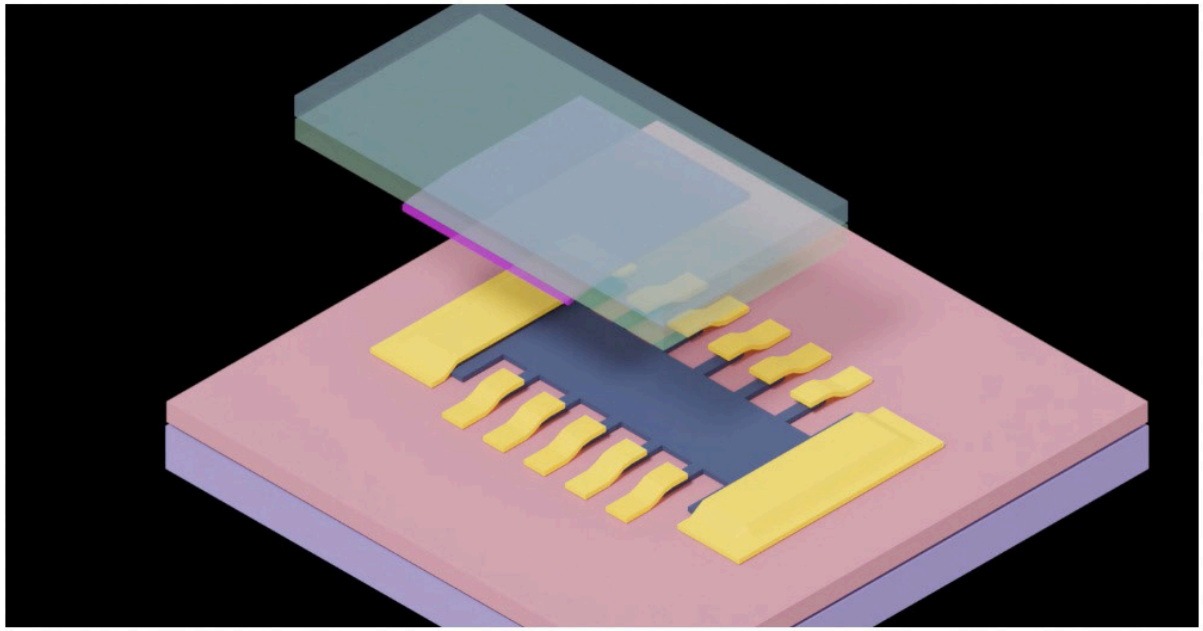
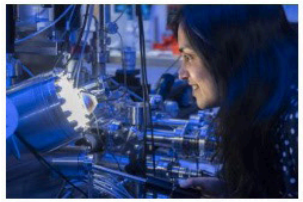


A shield for 2D materials that adds vibrations to reduce vibration problems

News for: Australia VIC

Multimedia:

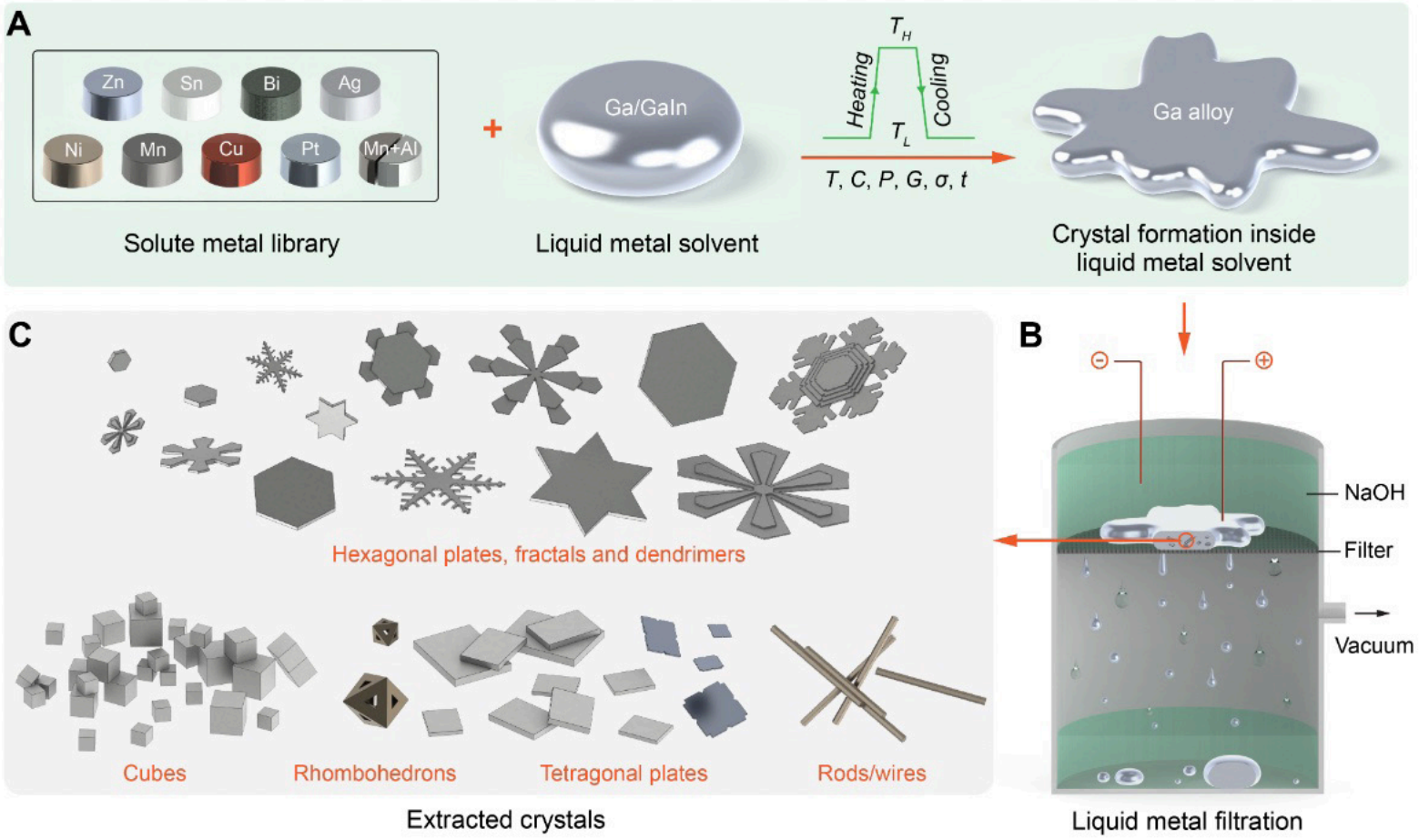


Dr Semonti Bhattacharyya

Team at Monash School of Physics

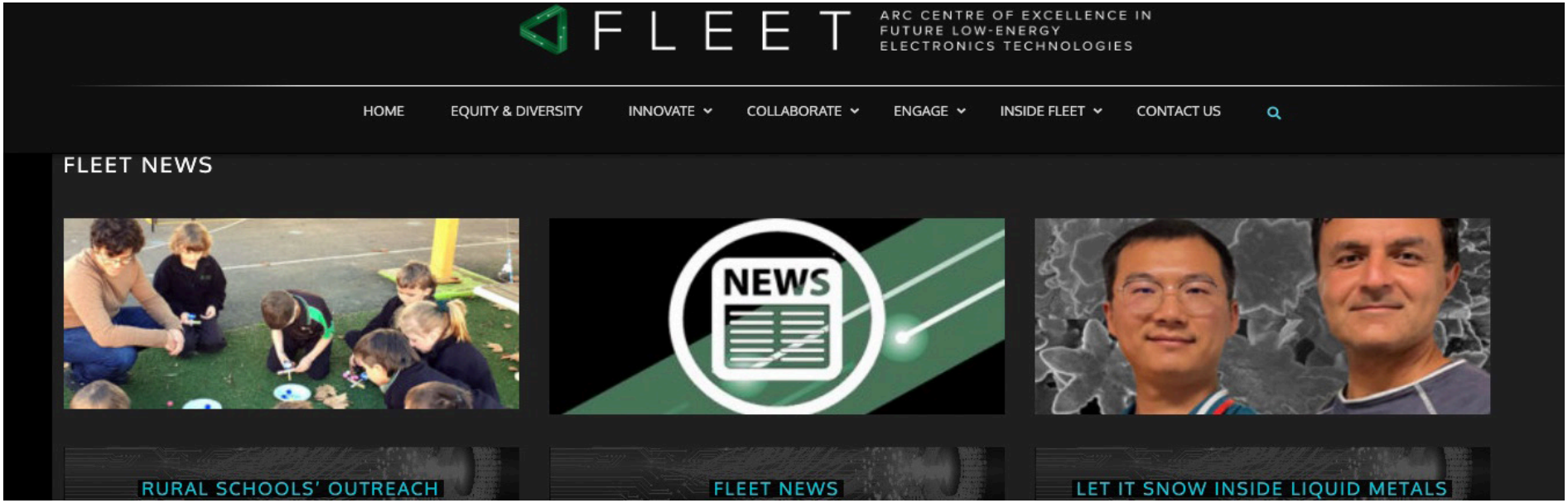
DATE	Type	TITLE	MEMBERS MENTIONED	LINKS
01-02-2022	Newspaper	Arnie's Terminator 2 robot shapes landmark UOW discovery	Xiaolin Wang	illawarramercury.com.au/story/7602636/arnies-terminator-2-robot-shapes-landmark-uow-discovery/
01-02-2022	Newspaper	Science Minister praises UOW for building jobs of the future	Xiaolin Wang	illawarramercury.com.au/story/7602786/world-class-research-ministers-high-praise-for-uow/?cs=300
03-02-2022	Magazine	Making metal loop and climb with electromagnetism	Xiaolin Wang	cosmosmagazine.com/science/physics/liquid-metal-loop-curl-electromagnetism/
04-02-2022	Magazine	Liquid metals, surface patterns, and the romance of the three kingdoms	Kourosh Kalantar-zadeh	issuu.com/materialsaustralia/docs/ma_ june2022_55final/s/16286198
18-02-2022	Magazine	Superfluids provide new insight into turbulence	Matthew Reeves	cosmosmagazine.com/nature/animals/you-may-have-missed-31/?utm_source=rss&utm_medium=rss&utm_campaign=you-may-have-missed-31
01-04-2022	Magazine	Together we're stronger: Developing a new layered material for future electronics	Michelle Spencer	issuu.com/materialsaustralia/docs/ma_ april2022_28april_linked
01-04-2022	Magazine	A zigzag blueprint for topological electronics	Dimi Culcer, Muhammad Nadeem	issuu.com/materialsaustralia/docs/ma_ april2022_28april_linked/s/15607847
01-04-2022	Magazine	No more moving parts: Liquid metal enabled chemical reactors		issuu.com/materialsaustralia/docs/ma_april2022_28april_linked/s/15607850
01-04-2022	Magazine	Making a 'sandwich' out of magnets and topological insulators, potential for lossless electronics	Qile Li	issuu.com/materialsaustralia/docs/ma_april2022_28april_linked/s/15607850
07-06-2022	Magazine	Jubilee catalyst: Scientists figure out how to get platinum to play at room temperature	Kourosh Kalantar-zadeh, Priyank Kumar, Torben Daeneke, Francois-Marie Allioux, Jianbo Tang	cosmosmagazine.com/science/platinum-catalyst-gallium-liquid/
01-09-2022	Magazine	Liquid platinum at room temperature: The 'cool' catalyst for a sustainable revolution in industrial chemistry	Jianbo Tang	issuu.com/materialsaustralia/docs/ma_september-2022_september29/s/16967170
01-09-2022	Magazine	Topological superconductors: Fertile ground for elusive Majorana particle	Xiaolin Wang, Lina Sang	issuu.com/materialsaustralia/docs/ma_september-2022_september29/s/16967160
18-11-2022	Newspaper	Uni's latest STEM star	Karen Livesey	newcastleherald.com.au/story/7985517/meet-newcastle-unis-latest-stem-superstar/
18-11-2022	Radio	ABC local Newcastle radio interview	Karen Livesey	

DATE	Type	TITLE	MEMBERS MENTIONED	LINKS
01-12-2022	Magazine	A chemical reaction as good as gold	Agustin Schiffrin, Benjamin Lowe	chemaust.raci.org.au/
01-12-2022	Magazine	Brilliant alternative uses for diamond	Dongchen Qi	chemaust.raci.org.au/
09-12-2022	Magazine	It's beginning to look a lot light Cryst-mas	Kourosh Kalantar-zadeh, Nicola Gaston	cosmosmagazine.com/science/zinc-crystal-metal-alloy-hot-exoplanet/



Liquid metal synthesis solvents for metallic crystals
DOI: 10.1126/science.abm2731

DATE	ARTICLE TITLE	MEMBERS MENTIONED	PUBLISHER	LINKS
02-02-2022	Beyond sci-fi: Researchers manipulate liquid metals without contact	Xiaolin Wang	UOW Innovation Campus News	uow.edu.au/media/2022/beyond-scifi-researchers-manipulate-liquid-metals-without-contact.php
08-08-2022	Researchers observe electric gate-controlled exchange-bias effect in van der Waals heterostructures	Lan Wang, Guolin Zheng, Sultan Albarakati	Spintronics.info	spintronics-info.com/researchers-observe-electric-gate-controlled-exchange-bias-effect-van-der-waals
01-10-2022	Dr Julie Karel Victorian 2022 Young Tall Poppy Science Award	Julie Karel	Monash Energy	monash.edu/energy-institute/news-events/newsletter
09-11-2022	Magnetism or no magnetism? The influence of substrates on electronic interactions	Agustin Schiffrin, Nikhil Medhekar, Bernard Field	Monash Science newsletter (Orbit) News	http://monashscience.createsend.com/t/ViewEmailArchive/
18-11-2022	Newcastle physicist Dr Karen Livesey named a national STEM Superstar	Karen Livesey	University of Newcastle News	newcastle.edu.au/newsroom/featured/newcastle-physicist-dr-karen-livesey-named-a-national-stem-superstar
20-12-2022	Chip industry's technical paper roundup	Michael Fuhrer, Semonti Bhattacharyya, Torben Daeneke, Matthew Gebert	Semiconductor Engineering	semiengineering.com/chip-industrys-technical-paper-round-up-dec-20/



DATE	ARTICLE TITLE	AUTHOR/S	PUBLISHER	LINKS
13-01-2022	Energy loss could be the surprise key to high efficiency	Elena Ostrovskaya, Eliezer Estrecho	ANU Physics	physics.anu.edu.au/news_ events/?ewsID=253
19-01-2022	Quantum materials to reduce energy consumption	Xiaolin Wang	Gadget Tendency	gadgettendency.com/quantum-materials-to-reduce-energy-consumption/
22-01-2022	Computing faces an energy crunch unless new technologies are found	Daisy Qingwen Wang	Business Daily Media	businessdailymedia.com/business-news/1593-computing-faces-an-energy-crunch-unless-new-technologies-are-found
27-01-2022	UNSW researchers receive distinct honours within the scientific community	Kourosh Kalantar-zadeh	UNSW News	newsroom.unsw.edu.au/news/science-tech/unsw-researchers-receive-distinct-honours-within-scientific-community
02-02-2022	Scientists can manipulate this liquid metal, hands-free	Xiaolin Wang	Popular Science	popsci.com/technology/liquid-metal-wires-levitate/
02-02-2022	Beyond sci-fi: Researchers manipulate liquid metals without contact	Xiaolin Wang	University of Wollongong	uow.edu.au/media/2022/beyond-sci-fi-researchers-manipulate-liquid-metals-without-contact.php
03-02-2022	Scientists can manipulate this liquid metal, hands-free	Xiaolin Wang	News Break	newsbreak.com/news/2510681037174/scientists-can-manipulate-this-liquid-metal-hands-free
03-02-2022	Beyond sci-fi: Manipulating liquid metals without contact	Xiaolin Wang	Space Daily	spacedaily.com/reports/Beyond_sci_fi_manipulating_liquid_metals_without_contact_999.html
03-02-2022	Manipulating liquid metals without contact	Xiaolin Wang	Lab Manager	labmanager.com/news/manipulating-liquid-metals-without-contact-27530
03-02-2022	Liquid metal throws some magnetic shapes	Xiaolin Wang	Materials Today	materialstoday.com/metals-alloys/news/liquid-metal-throws-some-magnetic-shapes/
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09-12-2022	I'm dreaming of a zinc Christmas?! Intricate 'snowflakes' created in liquid metal	Kourosh Kalantar-zadeh, Jianbo Tang	UNSW News	newsroom.unsw.edu.au/news/science-tech/i%E2%80%99m-dreaming-zinc-christmas-intricate-%E2%80%98snow-flakes%E2%80%99-created-liquid-metal
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15-12-2022	A shield for 2D materials that adds vibrations to reduce vibration problems	Michael Fuhrer, Semonti Bhattacharyya, Matthew Gebert	Statnano	statnano.com/news/71775

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15-12-2022	A shield for 2D materials that adds vibrations to reduce vibration problems	Michael Fuhrer, Semonti Bhattacharyya, Matthew Gebert	Nanowerk	nanowerk.com/nanotechnology-news2/newsid=62033.php
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20-12-2022	Metal snowflakes the thickness of a human hair could lead to new tech	Kourosh Kalantar-zadeh, Nicola Gaston	Big World Tale	bigworldtale.com/science/metal-snow-flakes-the-thickness-of-a-human-hair-could-lead-to-new-tech/
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20-12-2022	Ученые создали цинковые	Kourosh Kalantar-zadeh, Nicola Gaston	Naked Science	naked-science.ru/article/chemistry/metal-snow-flakes
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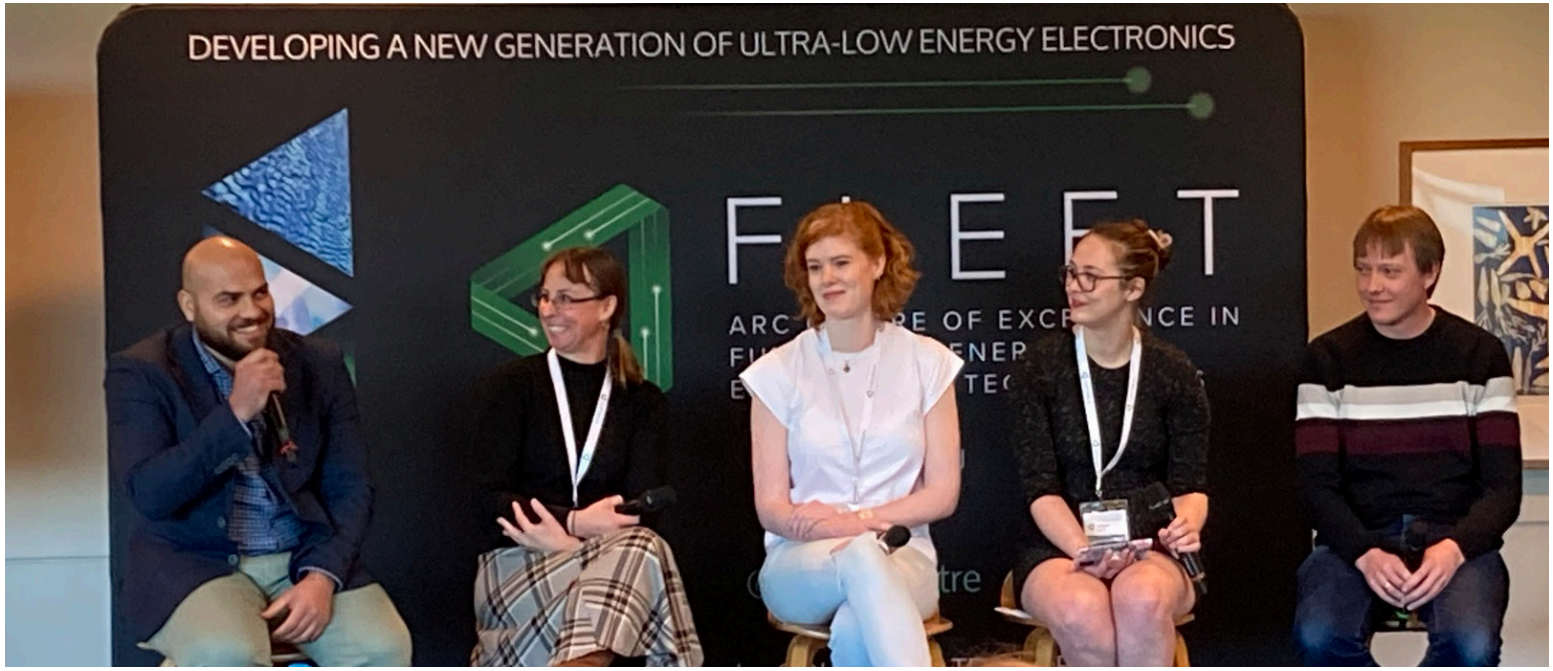

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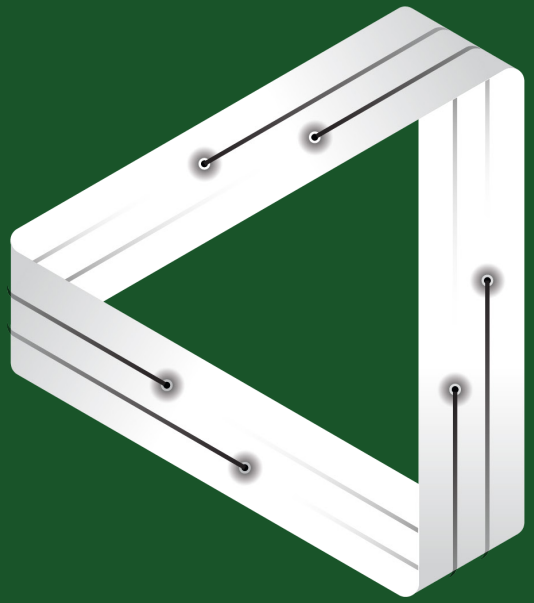

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