

Exciton Science Spring Seminar 2023

Date: 13-15 September 2023

Location: Yasuko Hiraoka Myer Room (Room 106), Sidney Myer Aisa Centre, University of Melbourne

Wednesday 13/9		Thursday 14/9		Friday 15/9			
Time		Time	Theme & MC	Industry Impact & Innovation	Time	MC	Research
9:00	Departure from UoM to CSIRO	9:00		Registration (Coffee)	9:00		Registration (Coffee)
10:00 - 13:00	CSIRO Lab Tour	9:20	MC: Paul Mulvaney	Paul Mulvaney (Centre Director): Welcome & Acknowledgement of Country	9:30	Paul Mulvaney	Kylie Catchpole (School of Engineering, ANU) - Tandem solar cells for high efficiency solar electricity and hydrogen
		9:30		Jacek Jasieniak (Pro-Vice Chancellor of Research Infrastructure, Monash) - The importance of innovation that is underpinned by research	10:15		Harini Hapuarachchi (RMIT) - Nitrogen-vacancy plasmonics
		10:00		Morning Tea	10:45		Morning Tea
		10:30	Solar & Renewable Economy (Panel, 15-20 min each) - MC: Jacek Jasieniak (TBC)	Kyra Schwarz (Associate Director, Energy Transition & Decarbonisation, Deloitte) - Key trends in the energy transition, climate and innovation	11:15	Wallace Wong	Victor Zhang (UNSW) - Light-matter interaction in various systems - three studies by a materials "scientist".
				Michael Brear (Director, Melbourne Energy Institute) - Solar in a net zero world			
				Yixiong Ji (PhD, UniMelb) - CZTSSe solar cells	11:45		James Bullock (School of Electrical and Electronic Engineering, UoM) - Passivated contacts for crystalline silicon solar cells
Nastaran Meftahi (Postdoc, RMIT) - High throughput machine learning for PV material optimisation & discovery	12:15			Phoebe Pearce (UNSW) - Efficiency limits of multi-junction coloured solar cells			
			Shi Tang (Postdoc, UniMelb) - Perovskites for use in space				
			Panel Q&A				
14:00	Registration & Lunch	12:30		Lunch	12:45		Lunch
14:45	Poster Session 1	13:30	Sustainability MC: Tim Schmidt (TBC)	Scott Watkins (Chief Sustainability Officer, KISCO) - Fashionable insights into the sustainability of flexible electronics devices	13:45	Trevor Smith	Manoj Sharma (Monash) - Doping in halide perovskite nanocrystals
		14:00	Agri-tech MC: Tim Schmidt (TBC)	Alex Soeriyadi (CEO, LLEAF) - LLEAF: Augmenting Sunlight for improved yields and nutrition in Agriculture	14:15		Lan Nguyen (Monash) - Magnetic assembly of Janus photonic crystal microbeads
		14:30	Ian Thomas (PhD, UNSW) - Agri-photovoltaics	14:45	Nitish Rai (Monash) - Understanding the stabilization of perovskite solar cells by pyrrolidinium and phosphonium salts		
15:45	Transfer time	15:00		Afternoon Tea			
16:00	Poster Session 2	15:30	Med-tech (Panel, 15-20 min each) MC: James Hutchison	Andrew MacLellan (Managing Director, BlueChiip)	15:15		Finish
				Maria Bravo (PhD, KU Leuven) - 3D tumor models and multifunctional nanomaterials for cancer therapies	15:45		
				John Li (CEO, Radetec Diagnostics) - Commercialisation of quantum dot lateral flow assays			
				Panel Q&A			
17:00	Finish	17:00		Finish			
		17:30		Networking Drinks and Dinner @ Ms Frankies (Carlton)			