

Chalcogenide nanoelectronics and photonics

A vehicle for collaboration and exchanges between Birmingham and Japan

8:30	Registration, Coffee + Pastries	
	Welcome and Electronics/Semiconductors	
9:00	Rob Simpson	Welcome from Rob
9:10	Tim Albrecht	Welcome from College of Engineering and Physical Sciences
9:30	Yuta Saito	Chalcogenide for Electronics
9:50	John Murphy	Control of the optoelectronic properties of monolayer molybdenum disulfide
10:10	Five Nano Talks	
10:30	Break	
	JSPS Talk and Photonics	
11:00	JSPS Talk	JSPS Fellowships, Bilateral/Multilateral Programmes and more
11:20	Wakana Kubo	Metamaterial Thermoelectric Conversion and Nonradiative Cooling
11:40	Rohit Chikkaraddy	Mid-infrared Driven Optomechanics in 2D-TMD Excitons
12:00	Takuo Tanaka	Optical metamaterials and their applications
12:20	Miguel Navarro-Cía	Material characterisation - laying the groundwork for future THz devices and systems
12:40	Five Nano Talks	
13:00	Lunch	
13:20	Lunch	
13:40	Lunch	
	New Techniques	
14:00	Tom Siday	Sampling ultrafast dynamics in materials down to the scale of atoms
14:20	Microsoft - Amir	New technique for computational materials discovery
14:40	Jason Stafford	Sustainable manufacturing of solution-processed transition metal dichalcogenides
15:00	Clifford Hicks	TBA
15:30	Five Nano Talks	
15:50	Break	
	Optical Properties and Materials	
16:10	Mark Dennis	Reflections on beam shifts: classical quantum weak values and singularimetry
16:30	Robert Simpson	Tellurium Photonics
16:50	Matt Coak	Tuning dimensionality, magnetism and conduction in van der Waals Mott Insulators TMPS3
17:10	Mihyeon Kim	Synchrotron-based insights into materials functionality in transition metal telluride thin films
17:30	Robert Simpson	Closing Remarks