



Day 1 – Thursday, 20th June

Time	Speaker / event	Title / venue
09:00	Registration opens / Coffee	Scarman Reception / Lounge area
10:00	Bora Karasulu	Opening Remarks
	Session 1	Chair: Louis Piper
10:10	David Greenwood (keynote) University of Warwick / WMG	Future battery needs of the automotive industry, and the UK R&D infrastructure needed to support it
10:50	Paul R. Shearing University of Oxford	Understanding battery materials using advanced X-ray and correlative imaging methods
11:20	Matteo Bianchini University of Bayreuth	P2-type sodium layered oxides doped with redox-inactive elements and halide solid electrolytes for Na-ion and Na-solid state batteries
11:50	Raj Pandya University of Warwick	Femto and picosecond charge dynamics in battery cathodes
12:05	Lunch	Scarman Lakeview Restaurant
	Session 2	Chair: Matteo Bianchini
13:00	Saiful Islam (keynote) University of Oxford	From Lithium-Rich Cathodes to Thiophosphate Solid Electrolytes: Insights into Battery Materials on the Atomic Scale
13:40	Rhodri Jervis University College London	Uncovering cracking using advanced in situ x-ray imaging methods
14:10	Siân Dutton University of Cambridge	The role of the Fe metal impurity in the electrochemical properties of MgFeB ₂ O ₅
14:40	Ferran Planella Brosa University of Warwick	Continuum models for lithium-ion batteries: a mathematical approach
15:00	Coffee break (poster set-up)	Scarman Lounge Area
	Session 3	Chair: Ioan-Bogdan Magdau
15:30	Chris-Kriton Skylaris University of Southampton	Large-scale quantum atomistic and multiscale simulations of batteries
16:00	Huseyin Sener Sen University of Warwick	Atomistic Simulations of Interfaces within All-Solid-State Batteries: A special case of Lithium
16:15	Paolo Melgari University of Warwick / WMG	Performance Enhancement of Nickel Manganese Cobalt Oxide Cathodic Material by Advanced Coatings
16:30 – 18:00	Poster Session	Space 24 (Free refreshments served in Space 25)
19:00	Conference Dinner	Scarman Lakeview Restaurant (ticketed event)

All talks will take place in the Tiered Lecture Theatre



Day 2 – Friday, 21st June

Time	Speaker / event	Title / venue
09:00	Registration / Morning Coffee Session 4 – Battery Industry	Scarman Reception / Lounge area Chair: Chris-Kriton Skylaris
10:00	Emma Kendrick (keynote) University of Birmingham	Sustainable Battery Design
10:40	Felix Hanke Dassault Systèmes BIOVIA	Automated workflows for battery material performance and degradation
11:00	Alice Merryweather illumion	Charge photometry: visualising single-particle state-of-charge and morphology changes
11:20	Jacob Gavartin Schrodinger Technologies Ltd	Atomistic modelling for battery materials development
11:40	Rowena Brugge Nyobolt	Bringing fast charging batteries to the market: the road to commercialisation for new anode materials
12:00	Lunch Session 5	Scarman Lakeview Restaurant Chair: Ivana Hasa
13:00	Mark Phipps TA Instrument / Waters	Measuring impedance under rheological shear conditions in slurries as a predictor for conductive networks in finished electrodes
13:15	Peter Slater University of Birmingham	Towards new battery electrode materials through synthesis and structure control
13:45	Pooja Goddard Loughborough University	Solid State Ionic Modelling of Niobium Based Oxides for Battery Applications
14:15	Masoud Jabbari University of Leeds	Modelling battery electrode manufacturing: coating, drying, and calendaring
14:30	Ioan-Bogdan Magdau Newcastle University	New Frontiers for Molecular Modelling: the Li-ion Battery from First Principles
14:50	Poster prizes	Tiered Lecture Theatre
15:00	Coffee break Session 6	Scarman Lounge Area Chair: Bora Karasulu
15:30	Ieuan Seymour University of Aberdeen	The role of Na substitution on structural transformations in layered Na-ion battery cathode materials
15:50	Ivana Hasa University of Warwick / WMG	Elucidating Dehydration of Prussian White cathodes: A Journey from Lab to Upscaled Sodium-ion Cell Prototypes
16:10	Alex Robertson University of Warwick	Identifying and preventing degradation in metal anodes
16:30		Closing remarks

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