

PROGRAMME

(Abstracts are available on pages 3-11 in order of presentation)

Day 1 – Monday 27th March 2023

Time	Event	Location
09:00	Registration and refreshments	Auditorium Foyer
09:45	Welcome – Professor Sir Peter Bruce FRS	Pichette
<i>Session 1: Atomistic to continuum modelling (chair Colin Please)</i>		Auditorium
10:00	Keynote: Tejs Vegge – “ML-accelerated simulations of reactions and solid-electrolyte interfaces in batteries”	
11:00	Refreshments	Auditorium Foyer
11:30	Birger Horstmann – “Dynamical phase transitions on the surface of negative electrodes – the role of the SEI”	Pichette Auditorium
12:30	Lunch	The Hall
<i>Session 2: Continuum modelling (chair Charles Monroe)</i>		
14:00	Kara Fong – “Bridging length scales in electrolyte transport theory via the Onsager framework”	Pichette Auditorium
15:00	Jelena Popović-Neuber – “Ion transport in soft matter battery electrolytes and related interphases”	Pichette Auditorium
16:00	Refreshments	Auditorium Foyer
16:30	Sam Cooper – “Machine learning for advanced characterisation and design of battery electrodes”	Pichette Auditorium
17:30	Poster Session and Drinks Reception	Auditorium Foyer
19:30	Dinner with speech by Professor Saiful Islam FRSC FIMMM	The Hall

Day 2 – Tuesday 28th March 2023

Time	Event	Location
8:30	Arrival and refreshments	Auditorium Foyer
<i>Session 3: Continuum modelling (chair Greg Offer)</i>		
9:00	Keynote: Jürgen Janek – “Solid-state batteries and what theoreticians and experimentalists can learn from each other”	Pichette Auditorium
10:00	Paul Albertus – “Electrochemical-mechanical coupling at metal / solid electrolyte interfaces”	
11:00	Poster Session and Refreshments	Auditorium Foyer
12:30	Lunch	The Hall
<i>Session 4: Design/Control-oriented modelling (chair David Howey)</i>		
14:00	Rebecca Ciez – “Techno-economic considerations for battery energy storage design”	Pichette Auditorium
15:00	Simona Onori – “Diagnosing battery health: from lab to field data”	
16:00	Closing Remarks	Pichette Auditorium
1630	Optional event (all welcome): BPX and the Battery Modelling Standards Forum. Contact peter.keevill@faraday.ac.uk for further details	Harold Lee Room