



AUSTRALIAN
BATTERY SOCIETY

October Meeting of the Australian Battery Society, Virtual

October 28th 2021

All times are AEDT (Syd/Mel time)

Time	Speaker	Title
9:30am	Neeraj Sharma, Adam Best, Rosalind Gummow	Welcome and Introduction
9:45am	Guoxiu Wang (UTS)	Low-cost beyond-lithium-ion batteries for renewable energy storage
10:10am	Alison Lennon (UNSW)	How Virtual Power Plants can make distributed batteries safer
10:35am	Morning Tea	
Chair: Rosalind Gummow		
10:55am	Candice Francis (PMB Defence)	Battery Technologies in a Submarine Environment
11:20am	Lianzhou Wang (UQ)	Design of Li-rich Cathode Materials for Li-ion Battery and Beyond
11:45am	Zaiping Guo (University of Adelaide)	Interfacial Design and Engineering for High Performance Aqueous Zinc Ion Batteries
12:10pm	Jawahar Nerkar (Magnis)	Magnis Energy Technologies: Vertical Integration of Li ion Battery Play
12:35pm	Lunch	
Chair: Dong Jun Kim		
1:25pm	Shanika Abeysooriya (Deakin)	Development of Plastic-Crystal Based Electrolytes Using Novel Dicationic Salts
1:50pm DJ	Ashish Kumar (Anton Paar)	Material Characterization for Battery Cell Manufacturing along the Process Chain
2:15pm	Joanne Loh (CSIRO)	Natural graphite - the value chain and opportunities for Australia
2:40pm	Stefan Adams (National University of Singapore)	Tools for automated rapid screening of fast ion conducting solids
3:05pm	Afternoon Tea	
3:30pm	Poster Session	
Ca. 5:00pm	End of Day One	

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Time	Speaker	Title
Chair: Neeraj Sharma		
9:30am	Shammi A. Ferdousi (Deakin)	The effect of water containing superconcentrated ionic liquid electrolytes for high energy density Na metal batteries.
10:10am	Matthew Overett (POF)	Experimental support for patents in “unpredictable arts” such as battery technologies
10:35am	Morning Tea	
Chair: Marzi Barghamadi		
10:55am	Libby Chaplain (Battery Stewardship Council)	Building circularity into the battery value chain
11:20am	Bernt Johannessen (ANSTO)	Add synchrotron techniques to your battery RnD tool chest
11:45am	Maggie Gulbinska (QUT)	Li-ion cells Fabrication and Testing Facility
12:10pm	Chris Ling (Sydney University)	High voltage layered oxide cathode materials in sodium-ion batteries: Structural evolution and anion redox
12:35pm	Lunch	
Chair: Adam Best		
1:25pm	Ji Eun Wang (UNSW)	Designing P2/O3 Biphasic Structure and Lithium Honeycomb Ordering for Sodium-ion Batteries
1:50pm	Alex Bilyk (Cap-XX)	History of CAP-XX Supercapacitors
2:15pm	Zhen Su (UNSW)	“Water-in-Sugar” Electrolytes Enable Ultrafast and Stable Electrochemical Naked Proton Storage
2:40pm	Adam Best, Brian Craighead (Energy Renaissance)	Announcement of ER Awards
3:05pm	End of Day Two	

Posters

Each poster will have a separate room that can be accessed from the main meeting environment.

Name	Title	Org.
Michael Brennan	Lithium Lanthanide Halides: A New Family of Solid Electrolytes	Usyd
Matthew Teusner	Small Angle Neutron Scattering in Battery Systems	UNSW
Uttam Mittal	Effect of post-synthesis processing on the electrochemical performance of $Y_2W_3O_{12}$	UNSW
Sicheng Wu	Poly(ethylene glycol) mixed electrolytes for highly stable proton batteries	UNSW
Qingbo Xia	Working Mechanisms of Conversion-type Metaphosphate Electrodes for Lithium/Sodium-ion Batteries	USyd
King Foong	Commercial production of $LiFePO_4$ using recycled battery materials	VSPC
Edward Lomdahl	Can Graphene Improve the Performance of Lithium-Ion Batteries?	RMIT/CSIRO
Lisa Djuandhi	Investigating the Role of Copolymeric Architectures in Electrode Materials for Efficient Li-S Battery Function	UNSW
Alexey Glushenkov	Battery Materials and Energy Storage Laboratory (ANU Battery Storage and Grid Integration Program)	ANU
Rory McCallum	Novel Boronium Ionic Liquid based electrolyte systems for high energy density lithium batteries: Physicochemical and Li-LFP cycling studies	CSIRO
Simin Moradmand	CO_2 Conversion to Carbon Anode Materials for Na-Ion Batteries via Molten Carbonate Electrolysis	U. Newcastle
Manas Panda	Probing the Li^+/Na^+ Storage Mechanism of Layered $MoTe_2$ Using Synchrotron-Based X-ray Techniques	Monash