

**Wednesday, 15<sup>th</sup> September 2021 (1<sup>st</sup> day)**

Time	Topic	Who?
Arrival and registration		
<b>13:30 – 13:40</b>	<b>Opening</b>	
<b>Towards Sustainable Lithium Batteries</b>		
13:40 – 14:10	Overview	Dominic Bresser
14:10 – 14:30	Conducting prospective LCAs – the example of metal- and liquid-free organic lithium-ion battery	Merve Erakca
14:30 – 14:50	Organic electrode materials for sustainable batteries	Jakob Asenbauer
14:50 – 15:10	Mn-rich cathodes for high-energy lithium batteries	Matthias Künzel
15:10 – 15:30	Mn-based DRS Oxyfluorides as Cathode Materials for LIBs	Yasaman Shirazimoghadam
<b>15:30 – 16:00</b>	<b>Coffee break (outside plenary)</b>	
<b>Morphology &amp; Structure</b>		
16:00 – 16:30	Overview	Roswitha Zeis
16:30 – 16:50	Structural and Mechanical Properties of Carbon Felt Electrodes for Vanadium Redox Flow Batteries	Kerstin Köble
16:50 – 17:10	Elektronentomographischen Charakterisierung von porösen Kohlenstoffen von der nm zur µm Skala und darauf basierenden Diffusions/Flusssimulationen“	Christian Kübel
17:10 – 17:30	SEI Growth during Battery Operation: Modelling Electrochemical-Mechanical Coupling	Lars von Kolzenberg
17:30 – 17:45	Break / Photo Session	All
17:45 – 19:30	Poster Session (HIU building)	All
<b>19:30 – 21:30</b>	<b>Dinner (at HIU premises)</b>	All

**Thursday, 16<sup>th</sup> September 2021 (2<sup>nd</sup> day)**

Time	Topic	Who?
<b>Solid-state batteries</b>		
09:00 – 09:30	Overview	Alberto Varzi
09:30 – 09:50	Impact of grain boundaries and microstructure on the performance of All-solid-state-batteries	Anton Neumann
09:50 – 10:10	LiBH <sub>4</sub> · LiCl · P <sub>2</sub> S <sub>5</sub> system as solid electrolytes for all-solid-state Li-ion batteries	Yang Hu
10:10 – 10:30	Polymer electrolytes for lithium-metal batteries	Haipeng Liang
<b>10:30 – 11:00</b>	<b>Coffee break</b>	
<b>Lithium-based batteries</b>		
11:00 – 11:30	Overview	Timo Danner
11:30 – 11:50	Application of Mechanochemistry in the battery industry. From preparation to recycling	Oleksandr Dolotko
11:50 – 12:10	Rational continuum modelling of the electrochemical double layer of ionic liquids: the role of competing energy scales for the emergence of charge saturation, bulk instability and charge oscillations	Max Schammer
12:10 – 12:30	Versatile electrode active materials – lithium and beyond	Xu Liu
<b>12:30 – 14:00</b>	<b>Lunch</b>	
<b>Multi-valent charge carriers</b>		
14:00 – 14:30	Overview	Zhirong Zhao-Karger
14:30 – 14:50	Porphyrin-based materials for high-rate batteries	Ebrahim Abouzari-Lotf
14:50 – 15:10	Metal oxides based composite electrodes for (post-) lithium battery systems	Montaha Anjass
15:10 – 15:30	Continuum modelling of transport and interface phenomena in magnesium electrolytes	Janina Drews
<b>15:30 – 16:00</b>	<b>Coffee break</b>	
<b>Sodium-ion-based batteries</b>		
16:00 – 16:30	Overview	Holger Euchner
16:30 – 16:50	Theory and Experiment in Interaction: Model studies on the initial formation of the solid electrolyte interphase	Florian Buchner and Katrin Forster-Tonigold
16:50 – 17:10	Towards Safe, Sustainable and High Voltage Sodium Ion Batteries	Venkateswarlu Pamidi
17:10 – 17:30	Sodium-ion batteries	Maidar Zarrabeitia
<b>17:30</b>	<b>End of the meeting</b>	
<b>18:00 – 22:00</b>	<b>BBQ (at HIU premises)</b>	