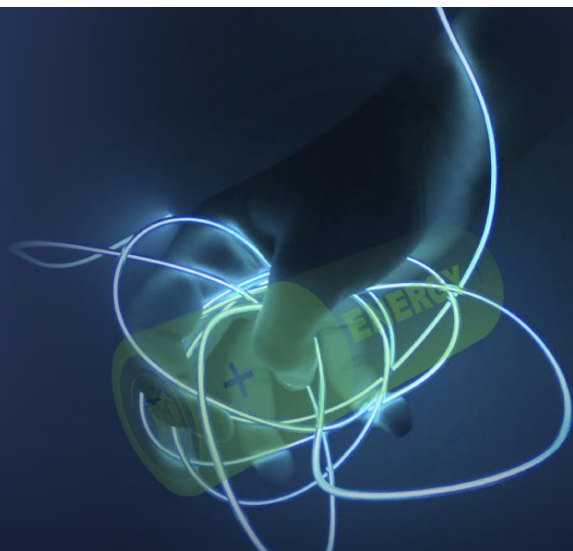


AT THE HEART OF A
CONNECTED GREEN SOCIETY

BATTERY
20-30+



BATTERY 2030+ European perspectives on batteries of the future

Programme

May 25, 13:00 – 17:10

13:00 – 13:10	Welcome <i>Prof. Maximilian Fichtner, CELEST and partner in BATTERY 2030+</i>
13:10 – 13:30	BATTERY 2030+ initiative and roadmap <i>Prof. Kristina Edström, Uppsala University, Coordinator of BATTERY 2030+</i>
13:30 – 13:50	AI-accelerated discovery of battery materials and interfaces; <i>T. Vegge; DTU</i>
13:50 – 14:10	Computational screening of Li and Na fast ion conductors; <i>J. Carrasco; CIC</i>
14:10 – 14:30	In Silico Molecular Engineering of Organic Battery Materials; <i>C.M. Araujo; Uppsala Univ.</i>
14:30 – 14:50	Autonomous feedback loops in experimental electrochemistry via integration of automation and data science <i>H. Stein; KIT/HIU</i>
Break to 15:20	
15:20 – 15:40	Accelerated, HTS-based design and development of advanced functional electrolytes for lithium battery applications <i>I. Cekic-Laskovica; MEET</i>
15.40 – 16.00	The role of interface in stabilizing reaction intermediates for hydrogen evolution and SEI formation in aprotic electrolyte <i>I. Castelli; DTU</i>

16:00 – 16:20	Interface stability in all-solid-state batteries; <i>C. Battaglia; EMPA</i>
16:20 – 16:40	Operando synchrotron experiments and porous-electrode modeling: a combined approach <i>M. Chandesris / S. Lyonnard; CEA/CNRS</i>
16:40 – 17:00	Operando Observation of Double Layer Charging and Early Solid Electrolyte Interphase Formation in Li-Ion Battery Electrolytes <i>E. Berg; Uppsala Univ</i>
17:00 – 17:10	Conclusion and thank you for this afternoon <i>Prof. Kristina Edström, Uppsala University, Coordinator of BATTERY 2030+</i> <i>Prof. Maximilian Fichtner, CELEST and partner in BATTERY 2030+</i>

May 26, 09:00 – 12:10

09:00 – 09:10	Welcome back and reflections from yesterday meeting <i>Prof. Kristina Edström, Uppsala University, Coordinator of BATTERY 2030+</i> <i>Prof. Maximilian Fichtner, CELEST and partner in BATTERY 2030+</i>
09:10 – 09:30	Towards delivering the 3b-generation of LNMO Cells for the xEV market of 2025 and beyond <i>M. Jahn; Austrian Inst. Technology</i>
09:30 – 09:50	Battery design and manufacturing optimisation through multiphysics modelling (DEFACTO) <i>E. Ayerbe; CIDETEC</i>
09:50 – 10:10	Model-based design of sustainable post-Li-ion batteries <i>S. Clark; SINTEF</i>
10:10 – 10:30	State of Health Identification of Lithium-ion Battery by Advanced Instantaneous EIS <i>X. Zhu; VUB</i>
10:30 – 11:00	Break
11:00 – 11:20	Life cycle sustainability analysis of present and future battery systems <i>M. Weil; KIT/HIU</i>
11:20 – 11:40	Conceptual membranes enabling sensing and self-healing for upcoming battery applications <i>J.M. Tarascon; CdF/LAMBE/RS2E</i>
11:40 – 12:00	Spatially Resolved Acoustic, Mechanical and Ultrasonic Sensing for Smart Batteries; <i>S. Hartmann et al.; FhG</i>
12:00 – 12:20	Autonomous Polymer based Self-Healing Components for high performant Li-Ion Batteries <i>M. Bercibar; VUB</i>
12:20 – 12:30	Conclusions and thank you <i>Prof. Kristina Edström, Uppsala University, Coordinator of BATTERY 2030+</i> <i>Prof. Maximilian Fichtner, CELEST and partner in BATTERY 2030+</i>