INTERNATIONAL BATTERY PRODUCTION CONFERENCE

5 to 6 November 2025

Conference Programme

Event location: Steigenberger Parkhotel Braunschweig, Germany

04.11.2025

Time		
18:00	Registration	
19:00	Apero	

Day 1 of the conference

05.11.2025

Time									Duration
08:00	Registration								
09:00	Welcome speech					Prof. Arno Kwade, Prof. Christoph Herrmann			00:20
09:20	Morning adress by BMFTR					Dr. Stefan Jung, Federal Ministry of Research, Technology and Space (BMFTR)			00:20
09:40	Keynote	tba						Prof. Dr.-Ing. Sabrina Zellmer, BLB+	00:30
10:10	Transit								00:15
	Room Maschinenhalle				**Room Nimês 1+2**				
	Topic	**Speaker**	**Institution**	**Duration**	**Topic**	**Speaker**	**Institution**	**Duration**	
10:25	**Dry Coating 1: Advanced Processing Strategies**	**Chair: Rüdiger Daub**		**00:45**	**Novel Materials**	**Chair: René Wilhelm**		**00:45**	00:45
	Advances in continuous extrusion-mixing of dry electrode masses – how to tackle the challenges with LFP-based formulations	Adrian Spillmann	Bühler AG	00:15	Investigations of organic coverage (OC) design on lithium-ion battery and the beyond	Fu Ming Wang	National Taiwan University of Science and Technology	00:15	
	Process Interactions in Dry Coating: From Mixing Mode to Line Load Requirements	Julius Gerk, Franziska Beverborg	TU Braunschweig, iPAT	00:15	Toward Scalable Aqueous Processing of High-Loading LNMO Electrode for High Energy Li ion Batteries	Frode Fagerli	SINTEF AS	00:15	
	DRYtraec® Process: Shear-Based Dry Electrode Manufacturing for LIB and Next-Gen. Battery Technologies	Benjamin Schumm	Fraunhofer IWS	00:15	Multifunctional structural battery composites: Production and characterisation of fiber-reinforced cathodes and separators	Daniel Vogt	TU Braunschweig, iPAT	00:15	
11:10	Discussion				Discussion				00:15
11:25	Poster session + Coffee break								00:30
11:55	**European Battery Supply Chain Challenges**	**Chair: Achim Kampker**	**Institution**	**00:45**	**Modelling & Investigation of Battery Safety**	**Chair: Thomas Turek**	**Institution**	**00:45**	00:45
	The Tipping Point: Why Europe's Battery Ambitions Are at Risk—and How to Save Them	Joscha Schnell	P3 automotive GmbH	00:15	Explainable Deep Learning Enables Accurate Battery Cycle Life Predictions	Hamidreza Eivazi Kourabbaslou	Clausthal University of Technology	00:15	
	Team Design & Manufacturing - How DfM can improve the current situation of EU cell production?	Luke Hu	Electroder	00:15	Metrology and Safety for Batteries at Physikalisch-Technische Bundesanstalt (PTB)	Fabian Plag	Physikalisch-Technische Bundesanstalt (PTB)	00:15	
	Cathode Materials Pilot-Plant "Powder-Up!! in Operation First Experiences with Scaling	Peter Axmann	Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW)	00:15	Scaling of Cathode Paste Dispersion Processes in Small-Scale Applications Using Stress-Based Principles	Tim Grenda	TU Braunschweig, iPAT	00:15	
12:40	Discussion			00:15	Discussion			00:15	00:15
12:55	Lunch break								01:05
14:00	Keynote	New Cathode Material Solutions for Lithium Ion and Sodium Ion Batteries – Challenges for Production or Opportunities for Lowering Cost?						Dr.-Ing. Hannes Wolf, BASF	00:30
14:30	Keynote	Visualization of Reactions in Sulfide All-Solid-State Lithium Batteries						Dr. Misae Otoyama, AIST	00:30
15:00	Break								00:15
15:15	**Manufacturing & Processing of Solid State Electrolytes / Batteries**	**Chair: Holger Althues**	**Institution**	00:45	**Coating and Drying of Battery Electrodes**	**Chair: Georg Garnweitne**	**Institution**	**00:45**	00:45
	Impact of extrusion parameters on polymer and composite electrolyte membranes via melt-processing	Dane Sotta	University Grenoble Alpes & CEA-Liten	00:15	About Humidity Management and Post Drying for different Battery Electrode Materials: Sorption and Kinetics	Philipp Barbig	Karlsruhe Institute of Technology (KIT), TFT	00:15	
	Manufacturing of polymer-based solid state battery electrolytes and electrodes via spray coating	Jonas Morgenstern	Fraunhofer ICT	00:15	Slot die designs – comparison fix lips vs. flex lips / T-Bar	Harald Doell	TSE Troller AG	00:15	
	Impact of Extrusion and Direct Calendering on Dry Coated Cathodes for Sulfidic All-Solid-State Batteries	Michael Wolf	BMW Group	00:15	IR-assisted vacuum drying to remove water from Prussian Blue cathodes in sodium-ion batteries.	Larisa Von Riewel	Excelitas Noblelight	00:15	
16:00	Discussion				Discussion				00:15
16:15	Poster session + Coffee break								00:30

16:45	**Battery Recycling & Repurposing, Material Recovery**	**Chair: Bengi Yagmurlu**	**Institution**	**00:45**	**Battery Cell Inspection and Monitoring**	**Chair: Carsten Schilde**	**Institution**	**00:45**	00:45
	Influence of the drying temperature on the recovery of electrolyte components in battery recycling	Jannik Born	TU Braunschweig, iPAT	00:15	Monitoring exposure to airborne particulates along the value chain of Li-ion batteries	Kevin Sparwasser	Stat Peel AG	00:15	
	Challenges of Using Recycled Ethyl Methyl Carbonate in Lithium-Ion Batteries	Valerie Mohni	TU Braunschweig, InES	00:15	Non-Destructive Characterization of Projection Welding for Battery Cell Interconnection with Scanning Acoustic Microscopy and X-Ray Computer Tomography	Felix Thurn	Fraunhofer ISE	00:15	
	Process failure mode - product failure mechanism - effect analysis ((PFM)²EA): A novel risk assessment methodology for automated battery disassembly - Integrating process and product safety in repurposing	Stefan Grollitsch	Vehicle Safety Institute, Graz University of Technology	00:15	From molecule to module – the Lund University ecosystem for battery safety characterization and fire hazard assessment	Elna Heimdal Nilsson	LTH, Lund University	00:15	
17:30	Discussion				Discussion				00:15
17:45	Break								00:15
18:00	Conversion for dinner				**Industry Session I**	**Chair: Arno Kwade**	**Institution**	**00:50**	00:50
					From Battery to Black Mass: Practical Insights to Lab-Scale Milling and Sieving	Lena Weigold	Retsch	00:10	
					Giga-Odenwald 2.0 – a modularized, standardized, and scalable mixing plant on a gigafactory scale	Stefan Gerl	Eirich	00:10	
					XRF-Based Quality Classification of Lithium-Ion Battery Black Mass	Jana Kalbáčová	HORIBA Jobin Yvon GmbH	00:10	
					Continuous Mixing of Electrode Masses by Extrusion - On the Way to Dry Electrodes	Julia Conrad	Coperion	00:10	
					Trajectory Mixing for Wet and Dry Electrode Processing – Opportunities and Challenges in Battery Slurry Production	Andreas Leitze	Tumbler	00:10	
					Discussion				00:15
19:05	Break								00:10
19:15	Reception								00:30
19:45	Gala Dinner								

Day 2 of the conference

06.11.2025

Time									Duration
08:30	Keynote	Optimizing Cathode Composites for Solid-State Batteries				Prof. Dr. Jürgen Janek, Center for Materials Research, Justus Liebig University Giessen			00:30
09:00	Keynote	Experiences and challenges in scaling new technologies into mass productio				Dr.-Ing. Jochen Eser & Nils Barenthin, VARTA Microbattery GmbH			00:30
09:30	Poster session + Coffee break								00:30
	Room Maschinenhalle				Room Nimês 1+2				
	Topic	**Speaker**	**Institution**	**Duration**	**Topic**	**Speaker**	**Institution**	**Duration**	
10:00	**Dry Coating 2: Novel Binder Systems**	**Chair: Klaus Dilger**		**00:45**	**Modelling Battery Production & Processing**	**Chair: Sebastian Thiede**		**00:45**	00:45
	Investigating the mechanical and electrochemical performance of polymer binder composites for fibrillated free-standing dry electrode films	Rajasekar Krishnamoorthy	The University of Sheffield	00:15	Model-Based Assessment of Energy and Material Efficiency for Sustainable Battery Cell Production	Gabriela Ventura Silva	TU Braunschweig, IWF	00:15	
	Toward PFAS-Free Lithium-Ion Batteries: Fluorine-Free Binders and Scalable Dry Coating Technologies	Minwon Suh	CNP Solutions	00:15	Model-based prediction of SEI growth and formation metrics for a knowledge-based process design	Felix Schomburg	Bavarian Center for Battery Technology (BayBatt)	00:15	
	Dry Electrode Processing for Sodium-Ion Batteries: Transition from PFAS-Based to PFAS-Free Binders	Oliver Fitz	Fraunhofer ISE	00:15	Integrating cell-level modeling through the PROTEO Platform with system-level models to link forming properties and energy consumption in battery cell formation chamber	Cihan Yurtsever	Comau SpA	00:15	
10:45	Discussion				Discussion				00:15
11:00	Break								00:15
11:15	**Advanced Production of Conventional and Novel Batteries**	**Chair: Peter Axmann**	**Institution**	**00:45**	**Dry Coating 3: Characterization & Innovative Approaches**	**Chair: Daniel Buchholz**	**Institution**	**00:45**	00:45
	Particle-based magnetic additives as information providers in lithium-ion cells	Jakob Endres	Fraunhofer ISC	00:15	Multi-Technique Characterization of PTFE-Containing Dry Electrode Mixtures for Lithium-Ion Battery Applications	Tamara Ebner	Anton Paar GmbH	00:15	
	Dry electrode processing of electrodes and recent advancements in multi-layer pouch cell development of sodium ion batteries	Tom Boenke	Fraunhofer IWS	00:15	Investigation of PTFE fibrillation in continuous twin-screw dry processing of graphite anodes	Annika Völp	Thermo Fisher Scientific	00:15	
	Advancing Sulfur–Carbon Composite Production: Industrial and Lab-Scale Infiltration Techniques for Metal–Sulfur Batteries	Marina Schwan	German Aerospace Center (DLR)	00:15	Effect of Dry Surfactant-Modified Carbon Additives on the Electrical Conductivity and Powder Flow Behavior of Dry Battery Electrode Mix	Rajasekar Krishnamoorthy	The University of Sheffield	00:15	
12:00	Discussion				Discussion				00:15
12:15	Lunch break								01:00
13:15	Panel Discussion	Circular Battery Production						tba	00:45
14:00	**Industry Session II**	**Chair: Michael Kurrat**	**Institution**	**00:45**	**Enabling Battery Circularity**	**Chair: Thomas Vietor**	**Institution**	**00:45**	00:45
	Smart Mixing for Battery Slurries: NETZSCH Planetary System with Real-Time Absolute Viscosity Analysis	Maximilian Münzner-Schmiedel, Felix Möhlen	Netzsch	00:15	Fast and Safe Electrical Characterization for Second-Life Battery Modules Across Diverse Testing Conditions	Simeon Kremzow-Tennie	Keysight Technologies Deutschland GmbH	00:15	
	Introducing the Center of Excellence Battery: Cell – and Battery Development for the Volkswagen-Group	Dominik Koll	VW	00:10	Solving the environmental challenges of cathode active materials for Li-ion batteries – the CALISMAT process	Shun Takano	Proterial Ltd., Japan	00:15	
	Measurement automation in battery research and production	Julian Diener	BioLogic	00:10	Enabling circular battery manufacturing through digital technologies	Sebastian Thiede	University of Twente	00:15	
	Dry Mixing and Post Processing for Reliable Dry Coating	Hans Schneider	Zeppelin	00:10					
14:45	Discussion			00:15				00:15	00:15
15:00	Poster session + Coffee break								00:30
15:30	Poster prizes								00:20
15:50	Break, Transition								00:05
15:55	**Next-gen Battery Production**	**Chair: Sabrina Zellmer**	**Institution**	**00:45**	**Advanced Electrode & Cell Production**	**Chair: Marcus Jahn**	**Institution**	**00:45**	00:45
	Upscaling sulfide-based solid-state batteries	Sahin Cangaz	Fraunhofer IWS	00:15	Polyvinylene carbonate in anodes as strategy to form a stable SEI in Lithium-Ion-Batteries	Nina Philipp	TU Braunschweig, iPAT	00:15	
	Mechanofusion-derived cathode composite microstructures for solid-state batteries: A scalable mixed conducting matrix coating approach	Finn Frankenberg	TU Braunschweig, iPAT	00:15	Continuous processing and characterization of Si anode and aqueous LFP cathode slurries via twin-screw extrusion	Kevin Raczka	Karlsruhe Institute of Technology (KIT)	00:15	
	Solvent-Free Processed Polymer Electrolyte for Li-Metal Batteries	Laida Otaegui	Centre for Cooperative Research on Alternative Energies CIC energiGUNE	00:15	Materials and Interfaces Design for Next-Generation Solid-state Na Batteries	Yang Zhao	University of Western Ontario, Canada	00:15	

16:40	Discussion		00:15
16:55	Goodbye speech		00:15
18:00	Exhibition of EU-Projects with Apero (IBPC-guests are welcome)		

Seminar Day - to be separately booked - not included in the standard conference fee

07.11.2025

Time			Duration
08:30	Seminar participants: Transfer, arrival and registratic		00:30
09:00	IBPC Seminar		04:00
13:00	Networking Lunch		00:00