



**INTERNATIONAL BATTERY
PRODUCTION CONFERENCE**
5 to 6 November 2025

Conference Programme

Event location: Steigenberger Parkhotel Braunschweig, Germany

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

03.11.2025

Time		Duration
13:00	IBPC Seminar	04:00
17:00	Seminar participants: Transfer to Steigenberger	00:30
18:00	Registration	
19:00	Apero	

04.11.2025

Time									Duration	
08:00	Registration									
09:00	Welcome speech						Prof. Dr.-Ing. Arno Kwade, Prof. Dr.-Ing. Christoph Herrmann		00:20	
09:20	Morning adress by BMFTR						tbd		00:20	
09:40	Keynote				Solid electrolytes: from mine to global markets				Dr. Christoph Hartnig, AMG Lithium	00:30
10:10	Short Poster Presentation Round 1						Alice Hoffmann, Jannik Born, Florian Mücken		00:10	
10:20	Transit								00:15	
	Room Maschinenhalle				Room Nimès 1+2					
	Topic	Speaker	Institution	Duration	Topic	Speaker	Institution	Duration		
10:35	Next Generation battery Systems	Chair: tbd		00:45	Process Analytics & Quality Assurance	Chair: tbd		00:45	00:45	
	High cyclability, zero-expansion sulfide ASSBs enabled by Si nanotextile anodes	Sahin Cangaz	Fraunhofer IWS Dresden	00:15	Beyond Viscosity: Rheology as Jack-of-all-trades Characterization	Hannes Bauer	Fraunhofer ISC	00:15		
	The scale up path of dry processing of polymer-based solid-state battery components	Katharina Platen	Fraunhofer IFAM	00:15	Quantification and Investigation of the fibrillation degree of PTFE in continuous produced dry coated lithium-ion battery anodes.	Julius Gerk	Institute for Particle Technology	00:15		
	Additives for Zinc-Based Batteries: Tailoring carboxylates as surfactant for dendrite-free zinc electrodeposition	Joachim Hering	TU Braunschweig	00:15	In-Line Quality Assurance for Solid-State Battery Slurries: Spatially Resolved Measurement of Electronic and Ionic Conductivity	Constantin Rueß	TU München	00:15		
11:20	Discussion				Discussion				00:15	
11:35	Poster session + Coffee break								00:30	
12:05	Dry Electrode Coating	Chair: tbd	Institution	00:45	Battery Circularity	Chair: tbd	Institution	00:45	00:45	
	Advances in DRYtraec® Dry Electrode Processing for LIB and Next-Generation Battery Technologies	Benjamin Schumm	Fraunhofer IWS	00:15	AI-Assisted Battery Circularity Decision Framework for Sustainable Second-Life Repurposing of Lithium-Ion Batteries	S. Revathi	National Institute of Technology, Puducherry	00:15		
	PFAS-Free Dry Electrode Processing: Innovative Binder Systems and Coating Routes for High-Performance Electrodes	Oliver Fitz	Fraunhofer Institute for Solar Energy Systems ISE	00:15	Are existing recycling processes for lithium-ion batteries ready for solid-state batteries?	Kirstin Schneider	TU Clausthal	00:15		
	Polyethylene-bonded dry electrodes via phase-transition-induced fibrillation	Chong Lei	Tsinghua University	00:15	Life Cycle Engineering of rechargeable alkaline batteries for stationary energy applications	Siavash Aghaei	TU Braunschweig	00:15		
12:50	Discussion			00:15	Discussion			00:15	00:15	
13:05	Lunch break								01:05	
14:10	Keynote				From Particles to Performance: The Manufacturing Challenge of Next-Generation Battery Materials				Prof. Dr. Louis Piper, University of Warwick	00:30
14:40	Keynote				Solvent Free Dry Coating - Efficient Production Processes for Next-Generation Batteries				Dr. Stefan Permien, Univercell	00:30
15:10	Break								00:15	
15:25	Innovative Recycling Techniques	Chair: tbd	Institution	00:45	Investigation of (Post) Drying Techniques	Chair: tbd	Institution	00:45	00:45	
	Front-End Lithium-Ion Battery Upgrading Using Coupled Contact Electrostatic Charging and Electrostatic Free-Fall Separation	Benjamin Hotte	University of Ottawa, Department of Chemical and Biological Engineering	00:15	Battery Drying Conditions and Rate Capacity	Ronan Njøs Dunne	Norwegian University of Science and Technology	00:15		
	Pilot-Scale Battery Recycling: Bridging Research and Industrial Deployment Through Process Optimisation and Material Characterisation	Marcelo Oliveira	CeNTI	00:15	Laser Drying of Battery Electrodes: Enabling Energy-Efficient Battery Cell Manufacturing	Sebastian Wolf	Laserline GmbH	00:15		
	Inductive Delamination of Lithium-Ion Battery Cathodes: From Process Development to Continuous Recycling	Bastian Fett	Fraunhofer Institute for Silicate Research	00:15	Experimental and Simulative Investigation of the Mass Transport Mechanisms during Jelly Roll Post-Drying	Maximilian Brand	Karlsruhe Institute of Technology (KIT)	00:15		
16:10	Discussion				Discussion				00:15	
16:25	Poster session + Coffee break								00:30	

16:55	Manufacturing of Sodium-Ion Batteries	Chair: tbd	Institution	00:45	Circular Cathode Production	Chair: tbd	Institution	00:45	00:45
	Scaling Up Sodium-Ion Cathodes: Translating LFP Production Insights into Scalable Thermal Processes for the Emerging European Market	Katja Kretschmer	IBU-tec advanced materials AG	00:15	From Lab to Pilot: Scaling Ni-Rich NMC and LFMP	Peter Axmann	ZSW Ulm	00:15	
	Sodium-Ion Batteries: Drop-in Ability and Comparison of Various Cathode Active Materials	Kriss-Kevin Daniel Kasten	TU Braunschweig	00:15	Influence of Process Parameters on the Delamination Efficiency of Production Cathode Scrap vs. End-of-Life Lithium-Ion Batteries	Steffen Fischer	TU Braunschweig -Institute of Particle Technology	00:15	
	Cost-Competitive Sodium-Ion Cells: Areal Capacity as the Dominant Lever between Cell Cost, Processability and Electrochemical Performance	Luca Sophie Brinkmann	TU München	00:15	BASF Battery Recycling – Starting up a Black Mass Production	Thomas Mütze	BASF Battery Materials and Recycling Schwarzheide GmbH	00:15	
17:40	Discussion				Discussion				00:15
17:55	Break								00:15
18:10	Conversion for dinner				Industry Session I	Chair: tbd	Institution	00:40	00:40
					tbd	tbd	tbd	00:10	
					tbd	tbd	tbd	00:10	
					tbd	tbd	tbd	00:10	
					tbd	tbd	tbd	00:10	
					Discussion				
19:05	Break								00:10
19:15	Reception	Steigenberger Parkhotel							00:30
19:45	Gala Dinner	Maschinenhalle of Steigenberger Parkhotel							

05.11.2025

Time									Duration
08:30	Keynote Accelerating European Battery Industrialization Through Open-Access Pilot Lines Prof. Dr.-Ing. Arno Kwade & Dr. Payam Hashemi, BLB								00:30
09:00	Keynote Synergizing Machinery and Chemistry: Advancing Sustainable Wet and Dry Electrode Manufacturing via Innovative Mixing and Tailored Additives Dr. Stefan Gerl, Eirich & Dr. Olga Isakin, BYK								00:30
09:30	Short Poster Presentation Round 2						Ross Sloan, Julia Hövels, Matthias Kammermeyer		00:10
09:40	Poster session + Coffee break								00:30
	Room Maschinenhalle				Room Nimés 1+2				
	Topic	Speaker	Institution	Duration	Topic	Speaker	Institution	Duration	
10:10	Lithium Sulfur Battery Production	Chair: tbd		00:45	Simulation of Slurry-based Processing	Chair: tbd		00:45	00:45
	Solid-State Lithium-Sulfur Battery Concepts for Aviation Applications	Georg Garnweitner	TU Braunschweig	00:15	Unlocking Dispersion Mechanisms in High-Speed Dissolvers Using SPH Simulations	Felix Möhlen	TU Braunschweig	00:15	
	High Energy Si/S Batteries via One Pot Production of Porous Semiconductor Polymer Electrodes	Jonathan Florez Montaño	CSMB/Humboldt Universität zu Berlin	00:15	Modelling and Optimisation of Battery Electrode Slurry Preparation Process by Extrusion	Sarah Bhutta	University of Warwick	00:15	
	Practical binder and conductive additive systems for sulfurized polyacrylonitrile cathodes enabling long cycle life and enhanced rate capability in lithium sulfur batteries	Ralf Müller	Fraunhofer-Institute for Material and Beam Technology IWS	00:15	A Hybrid Experimental, CFD, and Machine-Learning Framework for Viscoelastic Battery Slurry Slot-Die Coating	Sung Hin Lam	School of Mechanical Engineering, University of Leeds, United Kingdom	00:15	
10:55	Discussion				Discussion				00:15
11:10	Break								00:15
11:25	Modelling & Ai-Assisted Battery Production	Chair: tbd	Institution	00:45	Advanced Characterization Methods	Chair: tbd	Institution	00:45	00:45
	From degradation diagnosis to physics-based lifetime prediction of NMC/graphite battery cells	Connie Chen	Forschungszentrum Jülich GmbH	00:15	Non-Invasive LIB Quality Assessment by Spatial Magnetic Operando and Relaxation Analysis	Paul-Martin Luc	CDO2 Germany UG	00:15	
	Digital Twinning Framework for Modelling and Analysis of Integrated Multi-Stage Battery Manufacturing	Mohammad tavakol sadrabadi	Warwick Manufacturing group, University of Warwick.	00:15	High-Throughput, Non-Invasive SOH Estimation for End-of-Life Batteries Using Impedance-Based Techniques	Simeon Kremzow-Tennie	Keysight Technologies Deutschland GmbH	00:15	
	Overcoming Data Scarcity in AI-Based Quality Assessment of Lithium-Ion Cells	Tessa Krause	Precitec GmbH & Co KG	00:15	Robot-Assisted X-Ray Computed Tomography for Non-Destructive Quality Inspection of Battery Packs	Steven Oeckl	Fraunhofer IIS	00:15	
12:10	Discussion				Discussion				00:15
12:25	Lunch break								01:00
13:25	Panel Discussion European Battery Supply Chain tbd moderated by tbd								00:45
14:10	Poster prizes								00:20
14:30	Sustainable Electrode Fabrication	Chair: tbd	Institution	00:45	European Battery Ecosystem	Chair: tbd	Institution	00:45	00:45
	Dry manufacturing process for the gelled SOLGAIN™ electrodes	Jeremie Salomon	CEA	00:15	Mixing and Processing of Gen 5 LFP: From Slurry Formulation to cell formation	Iñigo Raposo	CIDETEC Energy Storage	00:15	
	Effect of Mechanical Stress Conditions During Extrusion on Semi-Dry Anode Microstructure and Performance	Niclas Hornischer	TU Braunschweig - Institute for Particle Technology	00:15	NoVOC - Advancing Sustainable Lithium-Ion Battery Manufacturing through Aqueous and Dry Electrode Processing	Stina Starborg	RISE	00:15	
	Semi dry coating by direct extrusion as flexible manufacturing strategy for battery electrodes	David Werner	Fraunhofer IKTS	00:15	Battery production digitalization: challenges and learnings from BATMACHINE project	Sylvain Gouttebroze	SINTEF	00:15	
15:15	Discussion				00:15				00:15
15:30	Poster session + Coffee break								00:30
16:00	Break, Transition								00:05
16:05	Innovative Battery Production	Chair: tbd	Institution	00:45	Industry Session II	Chair: tbd	Institution	00:40	00:45
	High-rate solid-state lithium batteries achieved by infiltrating a single-layer LLZO scaffold	Muhammad Zubair	Martin-Luther University Halle-Wittenberg	00:15	Powder conductivity measurement coupled with tapped density: a new approach for electrode improvement	Salvatore Pillitteri	Granutools	00:10	
	Innovative Electrode Architecture Design and Manufacturing for High Performing Lithium-Ion Batteries	Pengcheng Zhu	Loughborough University	00:15	Holistic Moisture Management in Battery Production Lines	Fabienne Huttner	PowerCo SE	00:10	
	Development and Performance Validation of High-Voltage Pouch Cells: From Conventional to Fully Gellified Architectures	Jon Rodriguez Romero	CIC Energigune	00:15	tbd	tbd	tbd	00:10	
					tbd	tbd	tbd	00:10	
16:50	Discussion								00:15
17:05	Goodbye speech								00:15