INTERNATIONAL BATTERY PRODUCTION CONFERENCE

4 to 5 November 2026

Conference Programme

Event location: Steigenberger Parkhotel Braunschweig, Germany

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

03.11.2026

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

Day 1 of the conference

04.11.2026

Time									Duration
08:00	Registration								
09:00	Welcome speech				Prof. Dr.-Ing. Arno Kwade, Prof. Dr.-Ing. Christoph Herrmann				00:20
09:20	Morning Address by BMFTR				Dr. Alexandra-Gwyn Paetz, Federal Ministry of Research, Technology and Space (BMFTR)				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 Mückan				00:10
10:20	Transit								00:15
	Room Maschinenhalle				**Room Nimês 1+2**				
	Topic	**Speaker**	**Institution**	**Duration**	**Topic**	**Speaker**	**Institution**	**Duration**	
10:35	**Next Generation Battery Systems**	**Chair: René Wilhelm**		**00:45**	**Process Analytics & Quality Assurance**	**Chair: Georg Garnweitner**		**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 & Finn Reinkensmeyer	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: Rüdiger Daub**	**Institution**	**00:45**	**Battery Circularity**	**Chair: Thomas Spengler**	**Institution**	**00:45**	00:45
	Advances in DRYtraec® Dry Electrode Processing for LIB and Next-Generation Battery Technologies	Benjamin Schumm	Fraunhofer IWS	00:15	Statistical error in the experimental determination of the element specific recycling ratio of Lithium-Ion Batteries (LIB)	Simon Bendl	TU Bergakademie Freiberg	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	
	Dry coating of Gen 4 LFP to high press density while maintaining competitive mechanical and electrochemical performance	Sam Burrow	Anaphite Ltd	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: Odne Burheim**	**Institution**	00:45	**Investigation of (Post) Drying Techniques**	**Chair: Sabrina Zellmer**	**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	
	Dual-Functional Conductive Magnetic Supraparticles: Battery Identifiers for Direct Recycling with Enhanced Conductivity	Andreas Wolf	Fraunhofer ISC	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: Sebastian Thiede**	**Institution**	**00:45**	**Circular Cathode Production**	**Chair:** Simon Lux	**Institution**	**00:45**	00:45
	Sodium-Ion Batteries: Drop-in Ability and Comparison of Various Cathode Active Materials	Kriss-Kevin Daniel Kasten	TU Braunschweig	00:15	From Lab to Pilot: Scaling Ni-Rich NMC and LFMP	Peter Axmann	ZSW Ulm	00:15	
	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	BASF Battery Recycling – Starting up a Black Mass Production	Thomas Mütze	BASF Battery Materials and Recycling Schwarzheide GmbH	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	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	
17:40	Discussion				Discussion				00:15
17:55	Break								00:15
18:10					**Industry Session I**	**Chair: Klaus Dilger**	**Institution**	**00:30**	00:30
					Particle Design Technology – Key to Improving Rechargeable Battery Performance via NHS	Daisuke Murase	Nara Machinery	00:10	
	Conversion for dinner				From Pump to Coater: Measuring What the Slurry Really Is – Inline Viscosity in Battery Electrode Production	Thomas Böhme, Dr. Thomas Haenel, Onur Özgül	Netzsch	00:10	
					De-Risking Dry Electrode Scale-Up: Testing the Process Chain from Powder Handling to Mixing and Calender Feeding	Hans Schneider	Zeppelin	00:10	
					Discussion				00:15
18:55	Break & Transtion to Gala Dinner								00:50
19:45	Gala Dinner	Maschinenhalle of Steigenberger Parkhotel							

Day 2 of the conference

05.11.2026

Time									Duration
08:30	Keynote	Accelerating European Battery Industrialization Through Open-Access Pilot Lines and Ecosystem Continuity					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 Nimês 1+2**				
	Topic	**Speaker**	**Institution**	**Duration**	**Topic**	**Speaker**	**Institution**	**Duration**	
10:10	**Lithium Sulfur Battery Production**	**Chair: Holger Althues**		**00:45**	**(Simulation of) Slurry-based Processing**	**Chair: Thomas Koller**		**00:45**	00:45
	Solid-State Lithium-Sulfur Battery Concepts for Aviation Applications	Georg Garnweitner	TU Braunschweig	00:15	Optimized slot dies with flex lips and closed control loop for precise thickness adjustment	Remo Andreas Ziörjen	TSE Troller AG	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: Thomas Vietor**	**Institution**	**00:45**	**Advanced Characterization Methods**	**Chair: Michael Kurrat**	**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	
	Optimizing Slot-Die Coating of High-Viscous Slurries in Battery Electrode Production	Vladimir Popok	FOM Technologies, Copenhagen, Denmark	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			Dr. Daniela Fontana (BEPA/Comau), Clemens Disch (Mathis), Dr. Christoph Hartnig (AMG Lithium), Prof. Dr.-Ing. Sabrina Zellmer (BLB), Dr. Payam Hashemi (LiPlanet) moderated by Prof. Dr.-Ing. Arno Kwade & Prof. Dr. Thomas S. Spengler				00:45
14:10	Poster prizes								00:20
14:30	**Sustainable Electrode Fabrication**	**Chair: Rachel Smith**	**Institution**	**00:45**	**European Battery Ecosystem**	**Chair: Peter Axmann**	**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	00:15
15:30	Poster session + Coffee break								00:30
16:00	Break, Transition								00:05
16:05	**Innovative Battery Production**	**Chair: Carsten Schilde**	**Institution**	**00:45**	**Industry Session II**	**Chair: Daniel Schröder**	**Institution**	**00:30**	00:30
	High-rate solid-state lithium batteries achieved by infiltrating a single-layer LLZO scaffold	Muhammad Zubair	Martin-Luther University Halle-Wittenberg	00:15	Accelerating Dry Electrode Development through Simultaneous Powder Conductivity and Densification Analysis	Roozbeh Valadian	GranuTools	00:10	
	Waste to battery materials: building a circular and resilient onshore supply chain for high purity alumina	Isaac Sousa Martins	Queensland University of Technology	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	DRYOON® MiniEnvironments – Moisture Diffusion and its impact on Dryroom Design	Michael Schmauß	Exentec Germany GmbH	00:10	
16:50	Discussion			00:15					00:15
17:05	Goodbye speech								00:15