

Preliminary Conference Programme

Event location: Steigenberger Parkhotel Braunschweig, Germany

<u>Day 1 of the conference</u> <u>07.11.2023</u>

Time									Duratio
08:00	Arrival of attendees								01:00
09:00	Welcome	Welcome Talk Prof. Arno Kwade / Prof. Christoph Herrman							00:15
09:15	Keynote	"Towards a Technolog	ically Sovereign Europe	an Battery Value	Chain - The R&D Approach of Germany's BMBF"		Stef	fan Jung (BMBF)	00:35
09:50	Break								00:10
	Roon	n Maschinenhalle		Ro	om Nimês 1+2				
	Topic	Speaker		Duration	Topic	Speaker			
10:00	Continuous Slurry Mixing	Chair: Kwade	Institution	00:45	Material Development and Production	Chair: Garnweitner	Institution	00:45	00:45
					· ·				
	Continuous Processing of Negative LIB Electrodes	Kristina Borzutzki	Fraunhofer FFB	00:15	Graphite Production Technologies for Batteries –	Bahman Yari	Hatch	00:15	
	using an Innovative Compounding System				State of the Art Review				
	Investigations of a continuous dispersion process for	Kevin Raczka	KIT	00:15	Mechanofusion for lithium-ion battery cathode	Guo Jung Lian	University of Sheffield	00:15	
	paste formulation in the production of lithium-ion				manufacturing				
	batteries and analysis of a cleaning procedure				manaractam's				
	Continuous slurry mixing process in large-scale	Adrian Spillmann	Bühler AG	00:15	Synthesis of layered oxide cathode active materials	Martin Menzler	Fraunhofer IST	00:15	
	electrode production.	ranan spiimaini	bunici 710	00.23	from secondary resources	William William	Tradimorer 151	00.15	
10:45	Discussion				ITOM Secondary resources				00:1
11:00	Break								00:1
11:15	3D-printing and structuring of electrodes	Chair: Kandula	Institution	00:45	Machine Learning in Battery Cell Production	Chair: Dröder	Institution	00:45	00:4
11.13	so printing and structuring or electrodes	Citati Kanaala		00.45	indianic zearing in battery cent roduction	Chair Broaci	motitution	00.45	00.4.
	Targeted Structuring of High-Energy Lithium-Ion	Michael Bredekamp	TU Braunschweig	00:15	Framework and demonstrator for Al-based quality	Xukuan Xu	Technische	00:15	
	Electrodes – An Innovative Method Without Loss of	Wilchael bredekamp	TO Braunschweig	00.13	assessment in battery cell production: an	Adiadii Ad	Hochschule	00.13	
	Material				implementation in KlproBatt		Aschaffenburg		
	Laser-structured electrodes for high energy and high	Danashaan 7h	University of	00:15		Kalle Ylä-Jarkko	Elisa IndustriQ	00:15	
		Pengcheng Zhu		00:15	Improving Yield Through AI/ML Driven Automated	Kalle Yla-Jarkko	Elisa industriQ	00:15	
	power lithium-ion batteries		Birmingham		Rootcause Analysis in EV manufacturing				
	3D-printed hydroborate based all-solid-state sodium	Jan Thomas	Fraunhofer IFAM	00:15	Large area evaluation of jelly roll alignment using	Andreas Kopp	Hochschule Aalen	00:15	
	ion batteries				machine learning methods				
12:00	Discussion								00:1
12:15	Lunch break								01:00
13:15	Postersession								01:30
14:45	Keynote							tbd	00:35
15:20	Keynote	"Ultra fast charge and	discharge in seconds w	rith Supercapacito	ors and Superbatteries"		Linus Froböse (Skeleto	n Technologies)	00:35
15:55	Break								00:15
16:10	Traceability and Ontologies in Battery Cell	Chair: Garnweitner	Institution	00:45	Material Production and Characterization	Chair: Zellmer	Institution	00:45	00:45
	Production								
	Traceability in battery production: Enabling deep	Hai Yen Tran	zsw	00:15	Effect of the PEO molecular weight on the	Maica Morant	CIC energi gune	00:15	
		nai reii Iraii					/		
	insights into the correlation between process and				composite cathode performances				
		Lukas Gold	Fraunhofer ISC	00:15	composite cathode performances Advantages of Particle Size and Shape Analysis for	Colin Dalton	JM Canty	00:15	
	insights into the correlation between process and		Fraunhofer ISC	00:15		Colin Dalton	JM Canty	00:15	
	insights into the correlation between process and Battery Value Chain Ontology (BVCO) – Towards an	Lukas Gold		00:15	Advantages of Particle Size and Shape Analysis for		,		
	insights into the correlation between process and Battery Value Chain Ontology (BVCO) – Towards an Ontology for Lithium-Ion-Batteries in a Circular		Fraunhofer ISC TU München	00:15	Advantages of Particle Size and Shape Analysis for Battery Manufacturing Performance through the use of Dynamic Imaging Technology Design to cost Ni, Mn and Co-based battery	Colin Dalton Guillaume Lefèvre	JM Canty Umicore	00:15	
	insights into the correlation between process and Battery Value Chain Ontology (BVCO) — Towards an Ontology for Utihium-Ion-Batteries in a Circular Economy Image-based Traceability in Electrode Production	Lukas Gold			Advantages of Particle Size and Shape Analysis for Battery Manufacturing Performance through the use of Dynamic Imaging Technology		,		
16:55	insights into the correlation between process and Battery Value Chain Ontology (BVCO) — Towards an Ontology for Lithium-Ion-Batteries in a Circular Economy Image-based Traceability in Electrode Production Discussion	Lukas Gold			Advantages of Particle Size and Shape Analysis for Battery Manufacturing Performance through the use of Dynamic Imaging Technology Design to cost Ni, Mn and Co-based battery		,		00:15
17:10	insights into the correlation between process and Battery Value Chain Ontology (BVCO) — Towards an Ontology for Utihium-Ion-Batteries in a Circular Economy Image-based Traceability in Electrode Production	Lukas Gold Johannes Lindenblatt	TU München	00:15	Advantages of Particle Size and Shape Analysis for Battery Manufacturing Performance through the use of Dynamic Imaging Technology Design to cost Ni, Mn and Co-based battery materials for EVs mass adoption in Europe	Guillaume Lefèvre	Umicore	00:15	00:1
	insights into the correlation between process and Battery Value Chain Ontology (BVCO) — Towards an Ontology for Lithium-Ion-Batteries in a Circular Economy Image-based Traceability in Electrode Production Discussion	Lukas Gold			Advantages of Particle Size and Shape Analysis for Battery Manufacturing Performance through the use of Dynamic Imaging Technology Design to cost Ni, Mn and Co-based battery	Guillaume Lefèvre	,		00:15
17:10	Insights into the correlation between process and Battery Value Chain Ontology (BVCO) – Towards an Ontology for Lithium-lon-Batteries in a Circular Economy Image-based Traceability in Electrode Production Discussion Break Innovations in dry and wet electrode production	Lukas Gold Johannes Lindenblatt Chair: Kwade	TU München	00:15	Advantages of Particle Size and Shape Analysis for Battery Manufacturing Performance through the use of Dynamic Imaging Technology Design to cost Ni, Mn and Co-based battery materials for EVs mass adoption in Europe	Guillaume Lefèvre Chair: Yagmurlu	Umicore	00:15	00:15
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17:10	Insights into the correlation between process and Battery Value Chain Ontology (BVCO) — Towards an Ontology for Lithium-lon-Batteries in a Circular Economy Image-based Traceability in Electrode Production Discussion Break Innovations in dry and wet electrode production Exploring the IR Drying Process in in Li-lon Battery Electrodes; an experimental and computational chemistry approach Multilayer slot coating — Opportunities for Battery Electrodes	Lukas Gold Johannes Lindenblatt Chair: Kwade Larisa von Riewel Harald Doell	TU München Institution Hereaus TSE Troller AG	01:00 01:00 00:15	Advantages of Particle Size and Shape Analysis for Battery Manufacturing Performance through the use of Dynamic Imaging Technology Design to cost Ni, Mn and Co-based battery materials for EVs mass adoption in Europe Recycling I (Disassembly and environmental impact) Process Development and Characterization for Automated Disassembly of End-of-Life lithiumion Batteries Achieving Efficient Recycling Closing The Loop For Lithium-Ion Batteries In Europe? Opportunities And Challenges	Guillaume Lefèvre Chair: Yagmurlu Shubiao Wu Nils Steinbrecher	Umicore Institution TU Braunschweig TES-AMM	00:15 01:00 00:15	00:1
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17:10	insights into the correlation between process and Battery Value Chain Ontology (BVCO) – Towards an Ontology for Lithium-ion-Batteries in a Circular Economy Image-based Traceability in Electrode Production Discussion Break Innovations in dry and wet electrode production Exploring the IR Drying Process in in Li-Ion Battery Electrodes; an experimental and computational chemistry approach Multilayer slot coating – Opportunities for Battery Electrodes Improvement of dry electrode manufacturing with powder characterization Investigation of Electrochemical Performance and Morphology of Multilayer Electrodes with Graded	Lukas Gold Johannes Lindenblatt Chair: Kwade Larisa von Riewel Harald Doell Salvatore Pilliterri	TU München Institution Hereaus TSE Troller AG Granutools	01:00 00:15 00:15 00:15	Advantages of Particle Size and Shape Analysis for Battery Manufacturing Performance through the use of Dynamic Imaging Technology Design to cost NI, Mn and Co-based battery materials for EVs mass adoption in Europe Recycling I (Disassembly and environmental impact) Process Development and Characterization for Automated Disassembly of End-of-Life lithiumion Batteries Achieving Efficient Recycling Closing The Loop For Lithium-ion Batteries In Europe? Opportunities And Challenges	Guillaume Lefèvre Chair: Yagmurlu Shubiao Wu Nils Steinbrecher Kelvin Chan	Umicore Institution TU Braunschweig TES-AMM ARTC	00:15 01:00 00:15 00:15	00:1
17:10 17:25	Insights into the correlation between process and Battery Value Chain Ontology (BVCO) – Towards an Ontology for Lithium-lon-Batteries in a Circular Economy Image-based Traceability in Electrode Production Discussion Break Innovations in dry and wet electrode production Exploring the IR Drying Process in in Li-lon Battery Electrodes; an experimental and computational chemistry approach Multilayer slot coating – Opportunities for Battery Electrodes Improvement of dry electrode manufacturing with powder characterization Investigation of Electrochemical Performance and Morphology of Multilayer Electrodes with Graded Porosity	Lukas Gold Johannes Lindenblatt Chair: Kwade Larisa von Riewel Harald Doell Salvatore Pilliterri	TU München Institution Hereaus TSE Troller AG Granutools	01:00 00:15 00:15 00:15	Advantages of Particle Size and Shape Analysis for Battery Manufacturing Performance through the use of Dynamic Imaging Technology Design to cost Ni, Mn and Co-based battery materials for EVs mass adoption in Europe Recycling I (Disassembly and environmental impact) Process Development and Characterization for Automated Disassembly of End-of-Life lithiumion Batteries Achieving Efficient Recycling Closing The Loop For Lithium-lon Batteries In Europe? Opportunities And Challenges tba Challenges and Strategies for Sustainable Recycling	Guillaume Lefèvre Chair: Yagmurlu Shubiao Wu Nils Steinbrecher Kelvin Chan	Umicore Institution TU Braunschweig TES-AMM ARTC	00:15 01:00 00:15 00:15	00:1:00
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Time									Duration
08:30	Keynote	"Raw Materials for Ba	ttery Production - Oppor	rtunities and Ch	allenges"		Aubrey Mainza (l	Iniversity of Cape	00:35
09:05	Keynote	"Productivity vs. Flexi	bility: Resolving the Confl	lict of Objective	s Through Agile Battery Cell Production"		Prof. Jürgen Flo	eischer (KIT, wbk)	00:35
09:40	Break				,				00:10
	Room Maschinenhalle Room Nimês 1+2								
	Topic	Speaker		Topic	Speaker		Duration		
09:50	Solvent-free and Solvent-reduced Electrode Product		Institution	Duration 00:45	Sustainability in Battery Cell Production	Chair: Spengler	Institution	00:45	00:45
09:50	Solvent-nee and Solvent-reduced Electrode Product	Cildii . Kwaue	institution	00:45	Sustainability in Battery Cell Production	Chair. Sperigier	institution	00:45	00.43
	Printing technology as green alternative for Li Ion Battery electrode production	Daniela Fenske	Fraunhofer IFAM	00:15	A blockchain platform demonstrator to increase transparency and to enhance more sustainable	Maximilian Rolinck	TU Braunschweig	00:15	
	Assessment of high-mass-loading NMC and graphite	Edenard Ontari	Empa	00:15	battery material value chains Advancements in Cost-Efficient and Sustainable Li-	Bernd Eschelmüller	Austrian Institute of	00:15	
	electrodes produced via dry electrode manufacturing	Edouard Querei	Етра	00:15	lon Battery Manufacturing: Insights from the BatWoMan Project	Berna Escheimulier	Technology GmbH	00:15	
	Solvent-free process for the roll-to-roll production	Alice Hoffmann	ZSW	00:15	A critical evaluation of system implications on the	Steffen Blömeke	TU Braunschweig	00:15	
	of nickelrich cathodes for LIB	Alice Hollingilli	2544	00.13	environmental targets of the new EU Battery	Sterren bioliteke	TO Braunschweig	00.13	
	or nickerich cathodes for LIB				· · · · · · · · · · · · · · · · · · ·				
					Regulation				
10:35	Discussion								00:15
10:50	Postersession								01:30
12:20	Lunch break								01:00
13:20	Keynote	"Resilience and sustai	inability of the European I	battery ecosyst	em"		Torsten Bran	denburg (BMWK)	00:35
13:55	Keynote	"CEA battery activitie	s: What is the right R&D:	scale to serve a	growing industry?"		Y	an Reynier (CEA)	00:35
14:30	Break								00:10
14:40	Electrode, Cell and Module Diagnostics	Chair: Schilde	Institution	00:45	Characterization, Formation and Aging	Chair: Kurrat	Institution	00:45	00:45
	lastantana and another the second sec	Erik Novak	4D Taskaslass	00:15	Combined Marshine Learning and Clastershaming	Binbin Zhu	TU Braunschweig	00:15	
	Instantaneous, non-contact inspection of key	ETIK INOVAK	4D Technology	00.13	Combined Machine Learning and Electrochemical	BIIIDIII ZIIU	TO Braunschweig	00:15	
	battery components				Impedance Spectroscopy for Battery Degradation Analysis				
	Inline X-ray Metrology for Battery Cell Production -	Hagen Berger	Exacom GmbH	00:15	Novel method for cell capacity judgement. Cell	Pier Paolo Conti	Marposs	00:15	
	Possibilities, Limits and Contribution to Process				insulation check with foams.				
	Improvements								
		Bob Zollo	Keysight Technologies	00:15	Investigation of Li Plating and Fast Charging for Li-	Niklas Bless	TU Braunschweig	00:15	
	cells	DOD EOIIO	ncysigne recimologics		ion Batteries with a Physico-chemical Modeling	TTIKIOS DICSS		00.13	
	cens				Approach Complemented by Electrochemical and				
					Optical Operando Experiments				
15:25	Discussion								00:15
15:40	Inline-analysis and Water Effects in Electrode Production	Chair: tbd	Institution	00:45	Production of SSB Cells	Chair: Michalowski	Institution	00:45	00:45
	Rheological Design of Battery Electrode Slurries	Carl Reynolds	University of Birmingham	00:15	Influence of Pressure in ASSB Assembly: Scalable Concepts to Improve Cell Performance	Lovis Wach	TU München	00:15	
	Inline Quality Measurement in the Continuous	Thorsten Stirner	Coperion GmbH	00:15	Development of a scalable production process of	Michael Grube	Fraunhofer IST	00:15	
	Mixing Process as a Key for a Steady and High				sulfide-based solid electrolytes and characterization				
	Product Quality				of product properties				
	Post-drying: simulation and experiments of micro-	Thilo Heckmann	KIT	00:15	Challenges of Compressing Sulfide-Based Separators	Carina Amata Heck	TU Braunschweig	00:15	
	and macro-scale mass transport			00.25	for Solid-State Batteries	DEL O TIMOLO TIECK	- Drudinschweig	00.15	
16:25	Discussion				nor some state patternes				00:15
16:40	Break								00:15
	Industrial Session	Chair: tbd	Institution	00.40	Community for New Community Both	Chair Michalan 11	In returning	00.45	00:10
16:50	muusurar session	Citail: t00		00:40	Components for Next-Generation Batteries	Chair: Michalowski	Institution	00:45	00:45
			Eirich	00:10	Transport Properties of Hard Carbons	Giar Alsofi	University of	00:15	
							Birmingham		
			Netzsch	00:10	Industry-near processability of sulfurized polyacrylonitrile based electrodes	Robin Moschner	TU Braunschweig	00:15	
			vw	00:10	Thin film lithium metal anodes for solid-state	Julian Brokmann	Fraunhofer IST	00:15	
					batteries manufactured via sputter deposition				
			Biologic	00:10					
17:35	Discussion		- 0		_			ļ.	00:15
	Conversion for dinner					Jan Diekmann	Custom Cells	00:20	00:20
	contention for diffier				Plenary Discussion	Prof. Arno Kwade /	Various speakers	00:45	00:45
17:50						rioi. Arno kwade /	various speakers		00:45
17:50 18:10						0 6 61 11 1			
						Prof. Christoph			
18:10						Prof. Christoph Herrmann			
	Break Gala Dinner						·		00:35

Day 3 of the conference 09.11.2023

JJ.11.2023									
Time								Duration	
08:30	Keynote						Umicore	00:35	
09:05	DS Break								
	Roor	n Maschinenhalle			Room Nimês 1+2				
	Topic	Speaker		Duration	Topic	Speaker			
09:15	Safety in Production and Use	Chair: Vietor	Institution	00:30	SEMINAR	Arno Kwade	01:45	00:30	
					09:15-11:00				
	Health and Safety in Battery Cell Production	Martin Föhse	Pilz GmbH und Co. KG	00:15	Introduction, material overview & electrode				
	Comparison of Thermal Runaway Early Detection	Torben Jennert	TU Braunschweig	00:15	production				
	Using Different Electrical Measurement Methods								
09:45	Discussion							00:15	
10:00	Break							00:15	

10:15	(Urban) Factories, Upscaling and Supply Chain	Chair: tbd	Institution	01:00				01:00
	Comparison of battery supply chains regarding their environmental and socio-economic impacts	Jan-Linus Popien	TU Braunschweig	00:15				
	Closing the Gap between Lab Scale Development and Industrial Technology: Cathode Materials Pilot- Plant "Powder-Up!"	Peter Axmann	zsw	00:15				
	Procedure for considering the required flexibility in production operations during factory planning using the example of the Fraunhofer Research Institution for Battery Cell Production FFB	Natalja Rube	Fraunhofer FFB	00:15				
	A scalable assessment framework for estimating battery resource potentials in urban environments	Katja Knecht	TU Braunschweig	00:15	Break		00:15:00	
11:15	Discussion		•		SEMINAR	Arno Kwade	00:45	00:15
11:30	Recycling II (Materials)	Chair: Zetzener	Institution	01:00	11:15-12:00 Introduction, material overview & electrode			01:00
	From end-of-life batteries to high quality graphite - developing a recycling process focused on anodic	Fernanda Padilha Nord	TU Braunschweig	00:15	production			
	Transforming Waste into Opportunity: Sustainable Black Mass Recycling and Beyond	Hady Seyeda	HC Starck	00:15				
	Comprehensive model-based environmental impact evaluation of recycling process chains	Abdur-Rahman Ali	TU Braunschweig	00:15	SEMINAR 12:00-12:45	Do Minh Nguyen	00:45	
	Electrochemical performance of active materials from spent LiBs regenerated with a direct recycling approach	Marilena Mancini	zsw	00:15	Automated Cell Assembly			
12:30	Discussion							00:15
12:45	Poster Prizes	Prof.	Arno Kwade / Prof. Ch	ristoph Herrmanı		Gabriela Ventura Silva	00:45:00	00:15
13:00	Stehlunch				12:45-13:30 Digitalization			