

PROGRAM



DAY 1
March 14th 2017

LITHIUM-ION-BATTERY TECHNOLOGY*	
Dr. Jochen Mähliß - Batteryuniversity GmbH	
TIME	TOPIC
09:30 am	ABC of batteries, Lithium-ion cells: structure and functional principles, anode and cathode active materials, market trends and analysis
11:00 am	Coffee break
11:15 am	Lithium-ion cells: discharge behavior and service-life, intrinsic safety features Lithium-ion batteries: structure, safety features and battery management
12:30 pm	Lunch break
02:00 pm	Lithium-ion batteries: labelling, correct handling, storage
03:30 pm	Coffee break
03:45 pm	Packing and shipping regulations ADR (road)
05:00 pm	End



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BATTERY MANAGEMENT SYSTEMS*	
Jochen Stromberg - BMZ GmbH	
TIME	TOPIC
09:30 am	Basics and definitions Safety features and shutdown systems
11:00 am	Coffee break
11:15 am	Fuel gauging and cell balancing
12:30 pm	Lunch break
02:00 pm	Communication and pairing
03:30 pm	Coffee break
03:45 pm	Charging, application examples
05:00 pm	End

CARRIAGE OF LITHIUM BATTERIES BY ROAD*	
Uwe Wunderlich - Wunderlich Handelsvertreter	
TIME	TOPIC
09:30 am	Introduction into the legal regulations Important principles and responsible persons involved
11:00 am	Coffee break
11:15 am	Risks and hazards including safety instructions Classification of lithium batteries including damaged batteries
12:30 pm	Lunch break
02:00 pm	Correct packing of lithium batteries Marking and labelling of consignments and transport units
03:30 pm	Coffee break
03:45 pm	Documents and accompanying papers Loading, carrying and unloading of consignments
05:00 pm	End

From 5:15 pm: Experience battery tests at Batteryuniversity

*All presentations of day 1 will be held in German.

PROGRAM



DAY 2
March 15th 2017

WORLD MARKET, CELL MANUFACTURER AND USERS

TIME	SPEAKER	TOPIC	COMPANY
08:55 am	Dr. Jochen Mähliß	Welcome	Batteryuniversity GmbH
09:00 am	Sven Bauer	World market analysis: trends and future visions	BMZ GmbH
10:30 am	Coffee break		
11:00 am	Yoshihito Inoue	Li-ion cells for power tools and e-bikes	Sony Europe Limited
11:30 am	Adrian Heuer	Battery life-time and its optimization on the example of a Li-NMC cell	Fraunhofer ISE
12:00 pm	Henrik Gaul	Qualification activities for selection of cells at STIHL	ANDREAS STIHL AG & Co. KG
12:30 pm	Lunch break		
02:00 pm	Peter Keil	Methods for non-destructive aging detection	Technische Universität München
02:30 pm	Fridolin Röder	Simulation supported diagnosis of lithium-ion batteries	TU Braunschweig Institute of Energy and Process Systems Engineering
03:00 pm	Samuel De-Leon	Samsung Note 7 case, battery safety issues impact on business	Shmuel De-Leon Energy, Ltd.
03:30 pm	Coffee break		
04:00 pm	Markus Egerer	Challenges and milestones for building up a cell production	ESCAD Automation GmbH
04:30 pm	Dr. Josef Sedlmair	Battery module production by wire and laser bonding	F&K Delvotek Bondtechnik GmbH
05:00 pm	Dong Wook Chun	LG Chem Li-ion cell technology	LG Chemical Ltd.
05:30 pm	Tkyun Lee	Next Gen Cylindrical LIB & New Market Outlook	Samsung SDI

12:30 pm Press Round Table: Sven Bauer, Prof. Achim Kampker, Christophe Pillot, Kurt Sigl, Dr. Michael Krausa, Martin Donnert

E-MOBILITY

TIME	SPEAKER	TOPIC	COMPANY
11:00 am	Mate Rimac	Batteries in high-performance vehicle applications	Rimac Automobili d.o.o.
12:00 pm	Prof. Achim Kampker	Commercial E-mobility- economically realized!	StreetScooter GmbH
12:30 pm	Lunch break		
02:00 pm	Kurt Sigl	Status quo of electromobility in Germany	Bundesverband eMobilität e.V.
02:30 pm	Roger Knecht	Pioneers of electromobility - what can we learn from them?	Kamoo AG
02:00 pm	Andreas Gronarz	Integrating different battery technologies for the electro mobility	Foreseepower SAS
03:00 pm	Coffee break		
04:00 pm	Harald Ludescher	Electric buses charging at night	Ziehl-Abegg Automotive GmbH
04:30 pm	Alois Bauer	100 V interchangeable batteries in practice	Mattro Mobility Revolutions GmbH
05:00 pm	Prof. Hans-Peter Bauer	Gauss electric motorcycle - experiences during launching	Elektrotechnik und Informations-technik Hochschule Darmstadt

From 6 pm: Experience automated production at BMZ

NEW MATERIALS AND TECHNOLOGIES

TIME	SPEAKER	TOPIC	COMPANY
11:00 am	Dr. Martin Finsterbusch	Solid-state batteries	Forschungszentrum Jülich
11:30 am	Paul Härtel	Lithium sulfur batteries	Fraunhofer Institut für Werkstoff- und Strahltechnik IWS
12:00 pm	Dr. Andreas Hofmann	Solid electrolytes	Karlsruher Institut für Technologie
12:30 pm	Lunch break		
02:00 pm	Dr. Henning Lormann	Lithium-plating prediction in Li-ion batteries	Fraunhofer-Institut für Silicatforschung ISC
02:30 pm	Dr. Michael Abert	Safety and emission tests on lithium-ion cells	Fraunhofer-Institut für Chemische Technologie ICT
03:00 pm	Martie Janssen	Advanced battery test solutions	Chroma ATE Europe
03:30 pm	Coffee break		
04:00 pm	Uwe Wunderlich	Dangerous good lithium batteries - violations and consequences	WUNDERLICH Handelsvertreter und Gefahrgutbeauftragter
04:30 pm	Michael Knobloch	ADR-compliant transport and storage of not transport-safe lithium-ion batteries	Genius Technologie GmbH
05:00 pm	Jens Erbstößer	Lithium batteries in the working environment	Erbstößer GmbH

BATTERY EXPERTS FORUM

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DAY 3
March 16th 2017

WORLD MARKET, CELL MANUFACTURER AND USERS

TIME	SPEAKER	TOPIC	COMPANY
08:55 am	Dr. Jochen Mähliß	Welcome	Batteryuniversity GmbH
09:00 am	Christophe Pillot	The rechargeable battery market and main trends 2016-2025	AVICENNE Développement
10:00 am	Dr. Michael Krausa	The future of a cell production in Germany	Kompetenznetzwerk Lithium-Ionen-Batterien e. V. (KLiB)
10:30 am	Coffee break		
11:00 am	Malte Bonk	Update Panasonic Li-ion roadmap	Panasonic Automotive & Industrial Systems Europe GmbH
11:30 am	Dr. Michael Buser	Lithium batteries - Pocket-sized power stations: fire risks, safety hazards, loss prevention	Risk Experts Risiko Engineering GmbH
12:00 pm	Dr. Jörg Reim	Design, production and performance of large-format Li-ion pouch cells	Litarion GmbH
12:30 pm	Lunch break		
02:00 pm	Panel discussion: Chances of a cell production in Germany		
02:30 pm	Prof. Arno Kwande	Challenges and milestones for building up a cell production	Technische Universität Braunschweig
03:00 pm	Dr. Harry Döring	Possibilities for extinguishing a lithium-ion battery fire	Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg
03:30 pm	Torge Thönnessen	Customizing of lithium battery cells	Custom Cells Itzehoe GmbH

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CELL AND BATTERY PRODUCTION

TIME	SPEAKER	TOPIC	COMPANY
11:00 am	Dr. Heiner Heimes	Challenges and milestones for building up a cell production	RWTH Aachen
11:30 am	Robert Stanek	Technical and economical implementation of a cell and battery production in Europe	P3 automotive GmbH
12:00 pm	Klaus Eberhardt	Planning of a production plant for cell production on a GW scale	M+W Group GmbH
12:30 pm	Lunch break		
02:30 pm	Dr. Ulrich Ehmes	Manz production technologies for a competitive cell and module assembly	Manz AG
03:00 pm	Ehsan Rahimzei	Second-life concepts for lithium-ion batteries from electric vehicles	Fachverband Electronics, Micro and Nano Technologies
03:30 pm	Holger Gritzka	Perspective and research needs in the field of the formation of Li-ion cells	thyssenkrupp System Engineering GmbH

BATTERY ELECTRONICS AND APPROVALS

TIME	SPEAKER	TOPIC	COMPANY
11:00 am	Beat Kreuter	Global battery certifications	DEKRA Certification B.V.
11:30 am	Marek Papuzinski	Which UL standard for which application?	UL International Polska Sp. z o.o.
12:00 pm	Michael Muck	Test guide for stationary batteries intended for storage	Batteryuniversity GmbH
12:30 pm	Lunch break		
02:30 pm	Florian Reiners	Inductive charging systems - Enabler for fully automatic charging	Blue Inductive GmbH
03:00 pm	Markus Weinberger	Charging infrastructure for lithium-ion batteries in intralogistics	Fronius Deutschland GmbH
03:30 pm	Miguel Rios	Battery management for industrial battery systems	Texas Instruments, Inc.

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