

PROGRAM

MEET & GREET | Nov. 1st

Join us for a Meet & Greet with the Conference Chairs on Sunday, Nov. 1st, 19:00, Steigenberger Parkhotel Braunschweig

PROGRAM

CONFERENCE DAY 1 | Nov. 2nd

- 8:30 | Arrival of Attendees
- 9:00 | Welcome by the Conference Chairs
- 9:15 | Keynote by Franz Kruger, Roland Berger
Lithium-Ion Battery Markets and Value Chain – Changing Business Models
- 9:50 | Keynote by Jacques Eksteen, Future Battery Industries CRC
Sustainable Material Sourcing
- 10:25 | [Electrode Production \(I\)](#)
Room Maschinenhalle I Chairs: Prof. A. Kwade, Dr.-Ing. W. Haselrieder
Customizing Lithium Ion Cells- from first material to series production
Anne Baasner, Custom Cells Itzehoe
Simulation based prediction of carbon black particle sizes in high intensity dispersion processes
Julian Mayer, TU Braunschweig | Institute for Particle Technology (iPAT)
Optimized High-Energy NCM622 Electrodes for Lithium-Ion Batteries Fabricated by Extrusion-Based Slot-Die Coating
Sebastian Reuber, Fraunhofer Institute for Ceramic Technologies and Systems IKTS
aNIR-Technology a game changer in electrode production?
Kai K. O. Bär, adphos Digital Printing GmbH
- 11:13 | Discussion
- 11:25 | Coffee Break
- 11:45 | [Electrode Production \(II\)](#)
Room Maschinenhalle I Chairs: Prof. A. Kwade, Dr.-Ing. W. Haselrieder
Energy Efficient LIB Production
Silje Nornes Bryntesen, Norwegian University of Science and Technology (NTNU)
Advances in water-based electrode processing for high energy Li-ion battery manufacturing: Si-Gr/NMC622 cells
Iker Boyano, CIDETEC
Effect of graphite anode morphology on the onset of lithium-plating in lithium-ion batteries
Alexander Adam, BMW Group
- 12:21 | Discussion
- 12:33 | [Industry Session](#)
Room Maschinenhalle
Inline quality control for continuous electrode slurry production
Adrian Spillmann, Bühler AG
Preparation and functionalization of active materials with intensive mixers to increase the performance of electrodes
Stefan Gerl, Maschinenfabrik Gustav Eirich
Continuous extrusion of electrodes
Nicole Neub, Coperion GmbH
- 12:53 | Lunch Break
- 13:38 | Postersession online
- 14:23 | Keynote by Peter Schroth, BMBF
From New Concepts to Applications: The Battery Funding Strategy of the German Federal Ministry of Education and Research
- 14:58 | [Cell Assembly \(I\)](#)
Room Maschinenhalle I Chair: Prof. K. Dröder
Building the pan-European battery ecosystem
Stefan Wolf, VDI/VDE Innovation + Technik GmbH
Sustainable and automated Li-ion cell production
Ulrike Polnick, Industrie-Partner IP PowerSystems GmbH
Powering tomorrow with energy-efficient dehumidification systems and dry rooms
André Meyer, Munters GmbH
- 15:34 | Discussion
- 15:46 | Coffee Break
- 16:06 | [Cell Assembly \(II\)](#)
Room Maschinenhalle I Chair: Prof. K. Dröder
Evaluation of flexible cell assembly processes and novel, flexible production equipment
Tobias Storz, Karlsruhe Institute of Technology (KIT) | wbk Institute of Production Science
Design parameters for a continuous stacking process in cell assembly of lithium-ion batteries
Christina Boeselager, TU Braunschweig | Institute of Machine Tools and Production Technology (IWF)
Filling and Formation of large Li-ion-cells – where scaling up is non-linear
Stefan Roessler, Zentrum für Sonnenenergie und Wasserstoffforschung Baden-Württemberg (ZSW)
- 16:42 | Discussion
- 16:54 | [Battery Production 4.0](#)
Room Maschinenhalle I Chair: Prof. C. Herrmann
Industry 4.0 Software Architecture for Battery Cell Manufacturing
Bob Zollo, Keysight Technologies
Analyzing and tailoring quality control measures for managing product variance in battery cell production lines.
Anna Sophia Kollenda, Technical University Munich | Institute for Machine Tools and Industrial Management (iwb)
On-Line Solutions to Optimize Electrode Coating Uniformity in Battery Production Processes
Gareth Joseph, NDC Technologies
Towards smart battery cell manufacturing: from in-line quality control to cyber-physical systems in electrode production
Marcel Dittmer, TU Braunschweig | Institute for Particle Technology (iPAT)
- 17:42 | Discussion
- 17:54 | End of Day One
- 19:00 | Reception at the Conference Lobby, Steigenberger Hotel
- 19:40 | Poster presentation
- 20:00 | Start of Conference Dinner, Steigenberger Hotel

PROGRAM

CONFERENCE DAY 2 | Nov. 3rd

- 8:30 | Keynote by Fredrik Hedlund, Northvolt
Northvolt – scaling up green cell manufacturing in Europe
- 9:05 | Keynote by Christian Hagelüken, Umicore
Battery materials in a circular economy – opportunities, challenges and requirements
- 9:40 | **Industry Session**
Room Maschinenhalle
Design considers, safety lessons and new developments of lithium-ion batteries for industrial applications
Dr. John De Roche, Aentron GmbH
Mono cell inspection in the battery cell production- How to increase and ensure the position accuracy of the electrodes in-line in the lamination and stacking production process?
Klaus Hamacher, BST eltromat International GmbH
Electrochemical Impedance Spectroscopy (EIS) for battery cells, module and packs
Albert Gröbmeyer, Keysight Technologies
- 10:00 | **Module & Pack Production**
Room Maschinenhalle | Chair: Prof. K. Dilger
Matrix Production Lines – Production Power for the World of Tomorrow
Alexander Weis, SCIO Technology GmbH
Production of Future-Proof Automotive Battery Systems
Jan Wokoeck, Webasto SE, Energy & Components, Battery Systems
Leak testing of battery packs during pack production
Sandra Seitz, INFICON GmbH
Laser Meets Battery Cells
Sören Hollatz, Fraunhofer Institute for Laser Technology ILT
- 10:48 | Discussion
- 11:00 | Coffee Break
- 11:20 | Keynote by Jürgen Janek, Justus Liebig University Giessen
From Solid Electrolytes to Solid State Batteries – Key Challenges
- 11:55 | **Production of Solid State Batteries**
Room Maschinenhalle | Chairs: Prof. A. Kwade, Dr.-Ing. W. Haselrieder
Processing of All Solid State Batteries: Recent Advances
Ingo Bardenhagen, Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM
Structural and electrochemical characterization of polymer-based a II-solid-state cathodes manufactured by a scalable process chain
Laura Helmers, TU Braunschweig | Institute for Particle Technology (iPAT)
Influence of the dispersing method on the performance of Lithium Solid-State batteries
Maica Morant-Miñana, CIC energiGUNE
Processing of Sulfide Solid Electrolytes for All Solid State Battery electrodes
Henry Auer, Fraunhofer Institute for Ceramic Technologies and Systems IKTS
The potential of thin film technologies in the production of ASSB
Nikolas Dilger, Fraunhofer Institute for Surface Engineering and Thin Films IST
- 12:55 | Discussion
- 13:07 | Lunch Break
- 13:52 | Postersession online
- 14:37 | **Electrode, Cell and Module Diagnostic during Production**
Room Maschinenhalle | Chair: M. Kurrat
An analytical method for the quantification of magnetic particle contaminants in powder materials for lithium-ion batteries
Giulio Ferraresi, Imerys Graphite & Carbon
Evaluation of an In-Line particle characterization method for Battery-Materials and-slurries
Sebastian Maaß, SOPAT GmbH
Classification and risk assessment of lithium-ion battery cells by parameter-based methods
Louisa Hoffmann | Stefan Doose, TU Braunschweig | Institute for High Voltage Technology and Electrical Power Systems (elenia), Institute for Particle Technology (iPAT)
- 15:13 | Discussion
- 15:25 | **Cell Finishing**
Room Maschinenhalle | Chair: Prof. M. Kurrat
Formation- a critical production step for cell quality?
Philip Niehoff, University of Münster | MEET Battery Research Center
Prospects of using predictive quality during cell finishing to reduce the process time
Sandro Stock, Technical University of Munich (TUM) | Institute for Machine Tools and Industrial (iwb)
- 15:49 | Discussion
- 16:01 | Coffee Break
- 16:21 | **Sustainability**
Room Maschinenhalle | Chair: Prof. C. Herrmann
CO2 optimized battery manufacturing in Europe with upstream integration potentials
Paul Wolff, P3 automotive GmbH
LCA of different battery cell technologies taking uncertainty corridors into account
Philipp Engels, TU Braunschweig | Institute of Machine Tools and Production Technology (IWF)
Towards sustainable supply chains for batteries: Insights from a spatially differentiated assessment of environmental and social impacts
Christian Thies, TU Braunschweig | Institute of Automotive Management and Industrial Production (AIP)
- 16:57 | Discussion
- 17:09 | End of Conference
- 18:00 | Start of Guided Tour BLB (registration required)

PROGRAM

CONFERENCE DAY 3 | Nov. 4th

9:15 | Welcome / Registration of Attendees

10:00 | Seminar Battery Production 4.0 (Wolfgang Haselrieder)

13:00 | Break

13:30 | Seminar Battery Production 4.0 (Wolfgang Haselrieder)