

Programme
3rd Graz Battery Days
on
Cost Effective Li-Battery Production Methods –
Materials, Cells and Packs
24th to 26th September 2018

Monday, 24th of September

Preregistration Kunsthaus, Foyer (17:30 – 20:00)

Get Together Event Kunsthaus, "Needle" (18:00 – 22:00)

Tuesday, 25th of September, DAY 1

Registration Kunsthaus, Foyer (08:00 – 09:30)

Welcome Kunsthaus, "Space04" (09:15 – 09:30)

Session: Materials for Cost Effective Battery Production 1

Session: Materials for Cost Effective Battery Production 2

Conference Dinner Restaurant Schlossberg (19:00)

Wednesday, 26th of September, DAY 2

Session: Tools and Processes for Cost Effective Cell Production

Session: Cost Optimization Potentials Beyond Cells

Important Places

Kunsthaus, Lendkai 1, 8020 Graz

Restaurant Schlossberg, Am Schlossberg 7, 8010 Graz

DAY 1: Tuesday, 25th of September

Session: Materials for Cost Effective Battery Production 1

Chairman: Jürgen Garche

09:30 – 10:15 **Cost Development, Cost Structure and Cost Reduction Potentials of Electric Vehicle Batteries**

Axel Thielmann; Fraunhofer ISI

10:15 – 11:00 **Graphite and Carbon Based Anode Materials**

Ivano Galbiati; SGL Carbon

11:00 – 11:30 **Coffee Break**

11:30 – 12:15 **From Silicon-Graphite Composites to Pure Silicon Anodes**

Klaus Brandt; Lithium Battery Consultant

12:15 – 12:45 **Silicon-Based Anodes: From Lab Scale to Pilot Line**

Mario Marinaro; ZSW

12:45 – 14:15 **Lunch**

Session: Materials for Cost Effective Battery Production 2

Chairwoman: Mareike Wolter

14:15 – 14:45 **Aqueous Processing of Cathodes for Li-Ion Batteries**

Willy Porcher; CEA Liten

14:45 – 15:15 **Performance and Cost Cost Competitiveness of Materials for Lithium-based and Alternative Battery Technologies**

Tobias Placke; University of Münster/ MEET Battery Research Center

15:15 – 15:45 **Production Methods and Properties of Battery Separator Films**

Jürgen Breil; BO-Film Consulting

15:45 – 16:15 **Coffee Break**

16:15 – 18:00 **Poster Session**

18:00 **End**

DAY 2: Wednesday, 26th of September

Session: Tools and Processes for Cost Effective Cell Production

Chairman: Klaus Brandt

- 08:30 – 09:15** **Industry 4.0 in Automated Battery Cell Production**
Rainer Hald; VARTA Microbattery GmbH
- 09:15 – 09:45** **Equipment for Battery Manufacturing**
Nico Meyer; Coatema Coating Machinery GmbH
- 09:45 – 10:30** **Machines and Systems for the Manufacturing of Large Battery Cells and Battery Modules**
Peter Schulz; Manz AG
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- 10:30 – 11:00** **Coffee Break**
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- 11:00 – 11:30** **Modular Formation Equipment for the Large-Scale Production of Lithium Ion Cells**
Michael Roscher; Thyssenkrupp System Engineering GmbH
- 11:30 – 12:00** **From Liquid to Solid Electrolytes: Impact on Batteries, Production, and Cost of Energy Storage**
Andreas Hintennach; Daimler AG
- 12:00 – 12:30** **Closing the Material Loop – Umicore's Answer to the Raw Material Challenges**
Paul Spurk; Umicore AG & Co KG
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- 12:30 – 13:45** **Lunch**
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Session: Cost Optimization Potentials Beyond Cells

Chairman: Bernd Kreidler

- 13:45 – 14:30** **Big in Energy and just 80mm in height: Next Generation Battery Electric Vehicle Batteries**
Wenzel Prochazka; AVL List GmbH
- 14:30 – 15:15** **Second Life of Traction Batteries in Stationary Storage Systems – A Win-Win with Challenges!**
Ulrich Bürger; Smart Power GmbH & Co KG
- 15:15 – 15:45** **How Can We "Electrify" the Drivers of Today and Tomorrow? Cost Optimization by Design for Manufacturing**
Nikolaus Hochgatterer; Samsung SDI Battery Systems GmbH
- 15:45 – 16:15** **Challenges, Opportunities and Solutions for the Recycling of Lithium-Ion Batteries**
Roland Pomberger; Montanuniversität Leoben
- 16:15 – 16:45** **Quickcharging – Challenges and Limits of Today's Cell Design**
Lars Hovestadt; Dr. Ing. h.c.F. Porsche AG
- 16:45 – 19:00** **Closing Remarks and Farewell Party**