

Program

Dry Coating Forum

Shaping the Future of Dry Battery
Electrode Processing

September 29 – 30, 2026 | Fraunhofer IWS | Dresden



Tuesday, September 29, 2026

Session 1: OEM

- 13:00 Opening
- 13:05 *TBD*
- 13:30 **Solvent and PFAS-Free Electrode Manufacturing Based on Polyethylene Binders**
Florian Schmidt and Vincent Gottsmann, BMW Group
- 13:55 **Tesla Dry Electrode Update: Performance, New Materials, Collaboration**
Kevin Matthews and Magnus Lindbäck, Tesla
- 14:20 **Coffee Break**

Session 2: Mixing

- 14:50 **Engineering the Dry Electrode Process: Scale-Up Strategies for Mixing, Post-Treatment, and Calender Feeding**
Hans Schneider, Zeppelin Systems GmbH
- 15:10 **Dry Processing of Sub-Micron-Sized Lithium Iron Phosphate (LFP) with Twin-Extrusion Mixing**
Christian Hänsel and Jur de Wit, Bühler and EMPA
- 15:30 **Mechanochemical, Shear-Induced Binder Activation, for Dry Battery Electrodes via Multi-Shaft High-Shear Mixing**
Matteo Gatti, MIXACO Dr. Herfeld GmbH & Co. KG

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- 15:50 **Beyond the Roller: Revolutionizing Dry Electrode Production through Pre-Calendering Quality Assurance**
Stefan Gerl, Maschinenfabrik Gustav Eirich GmbH & Co. KG
- 16:10 **Bimodal LFP Cathodes to Enable Dry Processability for High Performance Cathodes**
Milena Lux, Fraunhofer IWS
- 16:30 Coffee Break**
- Session 3: Innovation**
- 17:00 **AM Batteries Dry Powder to Electrode™ DBE2.0 – Climbing the Industrialization Ladder**
Omri Flaisher and Brandon Ludwig, AM Batteries Inc.
- 17:20 **Dry Electrode Manufacturing with a Continuous, Scalable Mixing Process**
Robin Lucke and Till Keunecke, IKA-Werke GmbH & Co. KG and UniverCell Holding GmbH
- Session 4: Poster Pitches**
- 17:40 **Development of a Continuous High-Speed Conductive Carbon Coating Process for NCM Cathode Active Materials with a Continuous Pre-Mixing**
Wook Ryol Hwang, Gyeongsang National University
- 17:45 **Optimization of the Continuous Dry-Coating Process to Minimize Particle Damage to the Anode Active Material**
Philipp Senft, TU München
- 17:50 **Dry Processing of Sulfide Solid Electrolytes Membranes for Application in All-Solid State Batteries**
Tilman Durst, Universität Münster
- 17:55 **Comparative Study of PTFE Free Binder Materials for Dry Processing of Battery Electrodes**
Frederieke Langer, Fraunhofer IFAM
- 18:00 **Concluding Remarks**
Benjamin Schumm, Fraunhofer IWS
- 18:15 Poster Session, Get Together, and Lab Tour**

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Wednesday September 30, 2026

Session 5: Coating Equipment

08:30 Opening

08:35 **DBE: From Powder to Performance**
Thomas Hackfort, Matthews Engineering

08:55 **Dry Processing – Precise Machinery Technology for Scalable Process Development**
Felix Russ and Volker Lewandowski, Breyer GmbH Maschinenfabrik and
Fraunhofer FFB

09:15 **Dry Coating: A Game Changer for Battery Production – Opportunities and Obstacles
for Machine Builders**
Christian Mock, Dürr Systems AG

09:35 **Extending Calender Roll Campaign Life for Dry Battery Cathode Processing using
EXOGARD™ Carbide Coatings**
Adam Smith, Linde Advanced Material Technologies Inc.

09:55 **Coffee Break**

Session 6: Start-up Pitches

10:30 **eGraphene – a Multi-Functional Carbon Additive for improved DCE Conductivity,
Processability, and Primer Coatings**
Michael Roscher, Sixonia GmbH

10:35 **Xerode Digital Printing: a Dry, Programmable Manufacturing Route to High Volume
Electrodes**
Dennis Cumming, Xerode

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- 10:40 **Recent Achievement of Low-Fluorine Core-Shell Dry Binder Materials and Continuous Dry Electrode Process**
Minwon Suh, CNPSOLUTIONS
- 10:45 **Dry Coating of Gen 4 LFP to High Press Density while Maintaining Competitive Mechanical and Electrochemical Performance**
Samuel Burrow, Anaphite Ltd.
- 10:50 Q&A
- Session 7: Research**
- 11:00 **Balancing Processability and Performance: Conductive Graphite in Dry-Coated NMC811 Cathodes**
Svenja Schreiber, TU Braunschweig
- 11:20 **Dry Electrode Development via Interface Engineering and Polymer-Assisted Processing**
Chung-Hsiang Chao, ITRI-MCL
- 11:40 *TBD*
Arthur Dupuy, Fraunhofer IWS
- 12:00 Lunch**

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Session 8: Metrology

- 13:00 **Relationship between Processing Conditions and Fibrillated Structure in Graphite-Based Dry Anode Mixtures**
Franz Miller and Ahmed Elabd, Anton Paar GmbH and Chemours
- 13:20 **Coupling Electrical Conductivity and Tapped Density Measurements for Optimized Battery Electrode Design**
Roosbeh Valadian, Granutools
- 13:40 *TBD*
- 14:00 **Extracting Quality and Process Intelligence in DBE Production**
Leon Onorio, Scantech Germany GmbH

Session 9: Material Update Pitches

- 14:20 **How Can Carbon-Coated En' Safe® Current Collectors Improve the Performance of Dry Process Electrodes?**
Aurélien Rivière, ARMOR BATTERY FILMS
- 14:25 **Advanced Fluoropolymer Binders Enabling High-Performance Dry Electrode Processing for Cathode and Anode Systems**
Ahmed Elabd, Chemours
- 14:30 **Novel PTFE Binder for Enhanced Performance: Comparative Study for Dry Electrode Processing**
Shriraj Modi, Gujarat Fluorochemicals Ltd.
- 14:35 **Binders Design for Enabling Dry Process Electrode Manufacturing**
Tessnim Sghaier, AGC
- 14:40 **Kynar® PVDF as Enabler for the Preparation of Battery Cell Electrodes by Electro-Spray Deposition**
Clément Paul, ARKEMA
- 14:45 Q&A
- 14:55 **Concluding Remarks**
Benjamin Schumm, Fraunhofer IWS