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ADVANCED BATTERY POWER CONFERENCE 2025

APRIL 02 - 03, 2025 IN AACHEN / GERMANY



SCIENTIFIC CHAIRMEN

Prof. Dr. Dirk Uwe Sauer

RWTH Aachen University | ISEA & FZ Jülich | Helmholtz Institute Münster

Prof. Dr. Martin Winter

FZ Jülich | Helmholtz Institute Münster & University of Münster | MEET

Further information about the Scientific Advisory Board can be found on our website: www.battery-power.eu

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Advanced Battery Power is one of the largest international scientific battery conferences in Germany. The established symposium offers a broad professional audience an excellent platform for the presentation of research work and results in the field of battery technology.

Representatives from industry and academia discuss the latest findings along the entire value chain of batteries: the current state of research on lithium-ion batteries, new types of systems and innovative materials, battery cell production and fields of application as well as second life and recycling. We are looking forward to your contribution.

TOPICS

1. Material level

- Active materials for lithium-ion and sodium-ion batteries
- Active materials for lithium metal/sulfur/air
- solid-state batteries
- Electrolytes & separators
- Other inactive materials
- Redox-flow batteries, and all other battery technologies

2. Cell level – any technology

- New materials and designs
- Performance and Lifetime
- Reliability and Safety
- Modelling, machine learning and parametrization
- Experimental characterization methods

3. Pack level – any technology

- New designs, materials & thermal management
- Diagnostics & battery management
- Modelling and machine learning
- Lifetime, reliability, and safety
- New sensors

4. Applications

- Automotive and mobility applications
- Stationary energy system applications
- Other applications
- vehicle-to-grid, vehicle-to-home and charging infrastructure
- Markets/grid integration/multi-use operation

5. Battery life cycle

- Raw materials
- Production processes
- Second use/Recycling
- Life cycle analysis (LCA)/Life cycle costs (LCC)

FIELDS OF RESEARCH AND METHODS/ OVERARCHING TOOLS AND COMPETENCIES

- Methodologies for fast characterization of new materials and production processes
- Procedure for lifetime and remaining useful life prediction
- Diagnostics and testing methods in production, quality control, and online operation for quality, performance, and safety
- Modelling, data, machine learning, and parametrization
- Economic and ecological assessment
- Markets, business models, and operation strategies



More information:

www.battery-power.eu/cfp

In cooperation with:



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