

CONFERENCE LANGUAGE IS ENGLISH



APRIL 2-3, 2025 IN AACHEN

ADVANCED BATTERY POWER

KRAFTWERK BATTERIE ⊕ ⊖

Automotive and Energy Supply Solutions

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ADVANCED BATTERY POWER KRAFTWERK BATTERIE ⊕ ⊖

As in previous years, the 17th Battery Conference of the cooperation partners Haus der Technik, ISEA Institute, RWTH Aachen University, MEET Battery Research Center at University of Münster will bring together engineers and scientists from the entire field of battery technology at the Eurogress Aachen in 2025. Unique to this renowned conference is the high participation of young scientists and innovative companies. Scientists, developers and engineers from all areas of the battery value-added cycle will meet at the conference. Interested parties who are unable to attend in person in Aachen will have the opportunity to participate online via our hdt⁺ digital campus.

Take advantage of the **hdt⁺ digital campus** during and after the conference:

- Keynote presentations (after approval) as stream and PDF for 3 months after the conference.
- All presentations (e. g. from the parallel Sessions after release) as stream and PDF for 3 months after the conference.

CONFERENCE CHAIRS

The 17th symposium „Advanced Battery Power Conference 2025“ will be held on April 2-3 as a face-to-face event in Aachen under the scientific direction of:



Prof. Dr. Dirk Uwe Sauer

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



Prof. Dr. Martin Winter

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

For detailed information about the scientific leadership, advisory board, and this year's keynote speakers, please visit the website:

BATTERY-POWER.EU

AGENDA

Wednesday // April 2, 2025

09:00 Registration

10:00 Welcome // Location: Europa Saal

Prof. Dr. Dirk Uwe Sauer, RWTH Aachen University | ISEA

10:10 Greetings // Location: Europa Saal

Prof. Dr. Werner Klaffke, HDT (Haus der Technik e. V.)

10:15 Greetings // Location: Europa Saal

Dr. Jan Henning Behrens,
Federal Ministry of Education and Research (BMBF)

Plenary Lectures // Location: Europa Saal

KEYNOTES

10:20 Predicting the lifetime of lithium ion batteries: understanding and modelling degradation

Prof. Gregory Offer, Imperial College London

10:55 Leveraging LCA for sustainable batteries – a chance to accelerate

Dr. Hans Beyer, Webasto Group

11:30-12:30 Poster Session 1 (even poster numbers) **and Exhibition**

11:45 Lunch Break and Exhibition

13:15 Parallel Session 1

1A // Ageing and Formation

Ph. D. Elixabete Ayerbe, CIDETEC Energy Storage // **Sunil Kumar Rawat**, Imperial College London // **Timo Ruewald**, BatterieIngenieure GmbH // **Sebastian Klick**, RWTH Aachen University | ISEA

1B // Production & Battery Passport

Daniel Evans, HELLA GmbH & Co. KGaA // **Markus Hackmann**, P3 Group // **Dr. rer. nat. Alice Hoffmann**, ZSW // **Dr.-Ing. Francesco Maltoni**, FEV Europe GmbH

1C // Materials

Max Larry, University of Liege // **Dr. Ziyang He**, Tsinghua University // **Dominik Weintz**, FZ Jülich | Helmholtz Institute Münster // **Jonathan Bähge**, E-Lyte Innovations GmbH

14:35 Poster Session 2 (odd poster numbers) **and Exhibition**

15:35 Parallel Session 2

2A // Battery Ageing

Florian Ströbl, Institute for Sustainable Energy Systems // **Dr.-Ing. Simon Schwunk**, Porsche AG // **Marcel Rogge**, Hochschule München University of Applied Sciences // **Michelle Allion**, KIT

2B // Stationary Battery Storage Systems

David Schaurecker, Bits to Energy Lab – ETH Zürich // **Willi Peters**, DECHEMA-Forschungsinstitut // **Dr. Michael Böttiger**, TU Dresden // **Dr. rer. nat. Thomas Waldmann**, ZSW

2C // Cell Modeling

Konrad Katzschke, Volkswagen AG // **Yizhou Zhang M.Sc.**, Chalmers University of Technology // **Dr.-Ing Jihed Ayari**, HIU // **Robin Saam**, Volkswagen AG

Plenary Lectures

KEYNOTE

17:00 Battery Digitalization with Artificial Intelligence
Prof. Dr.-Ing. Weihan Li, RWTH Aachen University | ISEA

17:35 End of the First Day

19:00 Evening event | Coronation Hall of Aachen City Hall

19:30 Poster Award Ceremony

Thursday // April 3, 2025

08:45 Welcome to the Second Day // Location: Europa Saal
Prof. Dr. Martin Winter, University of Münster | MEET & FZ Jülich | Helmholtz Institute Münster

Plenary Lectures // Location: Europa Saal

KEYNOTES

09:00 From fundamental materials science and physics to novel earth-abundant cathode materials for li-ion batteries
Prof. Gerbrand Ceder, University of California at Berkeley

09:35 R&D introduction from CATL
Dr. Xiaojian Wang,
Contemporary Amperex Technology GmbH (CATL)

10:10 Short Break

10:25 The Role of Control in the Clean Energy Revolution: the Lithium-Ion Battery Case Study
Prof. Dr. Simona Onori, Precourt Institute of Energy

11:00-12:00 Poster Session 3 (odd poster numbers) and Exhibition

11:15 Lunch Break and Exhibition

12:45 Parallel Session 3

3A // Materials & Cell Design

Martin Eckert, Fraunhofer IISB // **Shiho Honda**, RWTH Aachen University | ISEA & FZ Jülich | Helmholtz Institute Münster // **Dr. Christian Krause**, Asahi Kasei Europe GmbH // **Luke Hu**, Electroder

3B // Battery Diagnostics

Dr. Preben J. S. Vie, IFE – Institute for Energy Technology //
Ph.D. Davide Clerici, Politecnico di Torino //
Franziska Berger, RWTH Aachen University | ISEA //
Dr. Alois Friedberger, Airbus

3C // Solid State Batteries

Moritz Loewenich, Universitiy Duisburg-Essen //
Maria Rosner, Fraunhofer IWS // **Ph.D. Fu-Ming Wang**,
National Taiwan University of Science and Technology //
Tejaswini Kumbharde M. Sc., Fraunhofer ICT

14:05 Poster Session 4 (even poster numbers) and Exhibition

15:05 Parallel Session 4

4A // Ageing & Degradation

Veronika Vachenauer M. Sc., TU Munich // **Ph. D. M. Eng. Billy Wu**,
Imperial College London // **Lisa Cloos**, KIT //
Anhao Zuo, Tsinghua University

4B // Recycling Processes

Ph. D. Jacqueline Edge, Imperial College London //
Marc Philippart de Foy M. Sc., University of Liege //
Ayesha Tasawar, RWTH Aachen University | IME //
Marco Ahuis M. Sc., TU Braunschweig | iPAT

4C // Modeling

Francesca Pistorio M. Eng., Politecnico di Torino //
Tom Horvat M. Sc., M. B. A., AVL List GmbH // **Ph. D. Yicun Huang**,
Chalmers University of Technology // **Kashfia Mahin M. Sc.**,
TU Braunschweig

16:30 Synthesis and Outlook

Prof. Dr. Martin Winter, University of Münster | MEET &
FZ Jülich | Helmholtz Institute Münster

17:00 End of the Conference

Bus Departure in front of the Congress Building

17:30 Guided Tours through the CARL (in planning)

Exclusively for participants.
The number of participants is limited.
Online registration (free of charge) is required.

ca. 19:00 Return of the Buses

Please also note the Vehicle-2-Grid
conference taking place at the same time
VEHICLE-2-GRID.EU



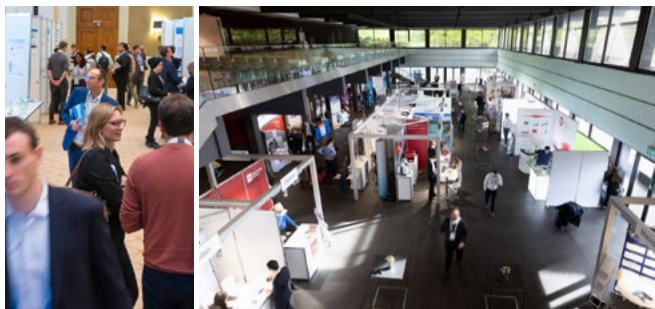
The detailed agenda can be found online at
BATTERY-POWER.EU/EN/AGENDA



EXHIBITORS AND SPONSORS

The trade exhibition of the combined events Battery Day NRW and Advanced Battery Power is a key part of the conference. In the spacious foyer of the Eurogress Aachen, participants can find out about products and developments relating to electrical storage solutions, battery production and applications and network directly with exhibitors.

The company exhibition in the ground-level is flanked by the poster exhibition. Both areas are closely linked visually and organisationally. The trade exhibition is the communicative centre of the conference and a marketplace for innovative products and future business. All exhibitors will be presented online as well. So you also benefit in the virtual space on **battery-power.eu** from an interesting marketplace for products and developments around electrical storage solutions, battery production and applications.





Location

Eurogress Aachen
Monheimsallee 48
52062 Aachen/Germany
www.eurogress-aachen.de

EVENT DATES

Date

April 2-3, 2025, we will start at 10:00 on April 2
(Online participation possible)

Participants

Battery researchers from the university and industrial environment, engineers, scientists and industry representatives with close contact to the topics of battery technology and electrification as well as interested participants who want to gain an overview of battery-related research fields. The conference covers topics from materials and battery cells to applications and markets related to the automotive and stationary sector and beyond.

Prices and Conditions

Category	Price in Euro
Participation fee	€ 1465.00
Research institutions	€ 895.00
Speakers/Poster authors/University members (also salaried and graduate students)	€ 645.00
Students (up to Master's degree)*	€ 295.00
Participation fee online	€ 1095.00
Research institutions online	€ 895.00
University members online (also salaried and graduate students)	€ 595.00
Students online (up to Master's degree)*	€ 245.00

*** Proof required**



Registration on
BATTERY-POWER.EU/EN/BINDING-BOOKING



PARTNERS AND ORGANIZERS



MEDIAPARTNERS



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