

CONFERENCE LANGUAGE IS ENGLISH



APRIL 10–11, 2024 IN MÜNSTER

ADVANCED BATTERY POWER

KRAFTWERK BATTERIE ⊕ ⊖

Automotive and Energy Supply Solutions

APRIL 10–11, 2024 IN MÜNSTER

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KRAFTWERK BATTERIE

As in previous years, the 16th 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 Messe und Congress Centrum Halle Münsterland in Münster in 2024. 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 16th international conference “Advanced Battery Power – Kraftwerk Batterie”.

Interested parties who are unable to attend in person in Münster will have the opportunity to participate online via our hdt+ digital campus.

CONFERENCE CHAIRS

The 16th symposium „Advanced Battery Power Conference“ will be held on April 10–11 as a face-to-face event in Münster under the scientific direction of:



Prof. Dr. Martin Winter

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



Prof. Dr. Dirk Uwe Sauer

RWTH Aachen University | ISEA &
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](https://battery-power.eu)

AGENDA

Wednesday // April 10, 2024

09:00 Registration

10:00 **Welcome** // Location: Congress hall

Prof. Dr. Martin Winter, University of Münster | MEET

10:10 **Greetings** // Location: Congress hall

Prof. Dr. Werner Klaffke, Haus der Technik e. V.

Plenary Lectures

KEYNOTE SPEAKER

10:20 **2 Years of PowerCo SE – Ramping-Up a Global Battery Champion**

Frank Blome, PowerCo SE

10:55 **What will the vehicle battery of the future look like?**

Prof. Dr. Markus Lienkamp,
TU Munich

11:30 **Poster session 1** (even poster numbers) **and exhibition**

Poster rating

11:45 **Lunch break and exhibition**

13:15 **Parallel session 1**

1A // Pack Level 1 – Diagnostics

Alexander Blömeke, RWTH Aachen University | ISEA //

Dr. Tina Shoa, Cadex Electronics // Daniel Rutz, Mercedes-Benz AG //

Dr. Simon O'Kane, Imperial College London

1B // Cell Level 1 – Aging

Michail Gerasimov, KIT // Prof. Dr.-Ing. Michael A. Danzer,

University of Bayreuth // Luke Hu, Electroder //

Katharina Bischof, ZSW

1C // Application

Bernhard Rieger, Audi AG // Dr. Gerald Rämisch, Volkswagen AG //

Jürgen Böck, UL Solutions // Prof. Dr. Susanne Lehner,

FAU Erlangen-Nürnberg

14:35 **Poster session 2** (odd poster numbers) **and exhibition**

Poster rating

15:35 **Parallel session 2**

2A // Life Cycle 1 – Production + Life Cycle Assessment

Moritz Gutsch, University of Münster // Monika Keutmann,

RWTH Aachen University // Jan-Linus Popien,

TU Braunschweig // Dr. Johannes Betz, Öko-Institut

2B // Cell Level 2 – Safety/Lithium Plating

Mark Junker, RWTH Aachen University | ISEA // Dr. Thomas Waldmann, ZSW // Prof. Dr. Maria Kateri, RWTH Aachen University // Thomas Roth, TU Munich

2C // Material Level 1 – Diverse

Johannes Kühn, Fraunhofer Institute of Material and Beam Technology IWS // Dr. Hyuck Hur, LG Energy Solution | MEET // Dr. Verena Küpers, University of Münster | MEET // Dr. Jonas Krug von Nidda, Federal Institute for Materials Research and Testing (BAM)

Plenary Lectures

KEYNOTE SPEAKER

17:00 Building Better Batteries Faster
Prof. Dr. William Chueh, Stanford University

17:35 End of the first day

19:00 Evening event | Jovel Music Hall

20:00 Lecture
“World record attempt in the Formula student”
Matthias Rohrer, AMZ Racing, Zürich

Thursday // April 11, 2024

08:45 Welcome to the second day // Location: Congress hall
Prof. Dr. Dirk Uwe Sauer, RWTH Aachen University | ISEA

Plenary Lectures

KEYNOTE SPEAKER

09:00 Recent Activities in Research and Development on Next Generation Batteries in Japan
Prof. Dr. Kohei Uosaki, Center for Research and Development Strategy (CRDS)

09:35 20 year of process development for Li-batteries – current status and open issues
Prof. Dr. Bernd Friedrich, RWTH Aachen University

10:10 Short break

10:25 Non-Li based systems: a down to the earth vision
Prof. Dr. Maria Rosa Palacin Peiró,
Institut de Ciència de Materials de Barcelona

11:00 Technology lines in materials and production engineering for Northvolt's European gigafactories
Nicolas F. Steinbacher, Northvolt

11:35 Poster session 3 (odd poster numbers) and exhibition
Poster rating

11:45 Lunch break and exhibition

13:15 Parallel session 3

3A // Cell Level 3 – Na-Ion Batteries & Thermal Characterization

Mathias Rehm, TU Munich // **Hendrik Laufen**, RWTH Aachen University | ISEA // **Leon Schmidt**, KIT // **Christiane Essl**, Virtual Vehicle Research GmbH

3B // Material Level 2 – Solid State Batteries

Dr. Jannis Küpper, FEV Europe GmbH // **Sofia Perticarari**, Blue Solutions // **Dr. Simon Wiemers-Meyer**, University of Münster | MEET // **Dr. Letian Li**, Thermo Fisher Scientific

3C // Pack Level 2 – Pack Safety

Julian Ulrich, KIT, IAM-ET // **Niklas Weber**, KIT // **Jon Perez**, Fundación CIDETEC // **Dr. Gabriela Gerosa**, ZSW

14:35 Poster session 4 (even poster numbers) and exhibition

Poster rating

15:35 Parallel session 4

4A // Material Level 3 – Li-Ion Batteries

Christin Hogrefe, ZSW // **Dr. Fu-Ming Wang**, National Taiwan University of Science and Technology // **Dr. Johannes Kasnatscheew**, University of Münster | MEET // **Mirko Fischer**, University of Münster

4B // Life-Cycle 2 – Recycling

Felix Nagler, Fraunhofer ISC // **Christian Wilke**, TU Bergakademie Freiberg // **Maike Michelle Gnutzmann**, University of Münster | MEET // **Alexander Nickol**, Fraunhofer IKTS

4C // Pack Level 3 – Modelling & Machine learning

Dr.-Ing. Weihan Li, RWTH Aachen University | ISEA // **Alexander Karger**, TU Munich // **Philippa Scharpmann**, Federal Institute for Materials Research and Testing (BAM) // **Markel Azkue**, Ikerlan

17:00 Synthesis and outlook

Prof. Dr. Martin Winter, University of Münster | MEET

17:30 End of the conference

Guided tour of MEET and Fraunhofer FFB

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 event Battery Day NRW and Advanced Battery Power forms a core part of the conference. In the spacious foyer of the Messe und Congress Centrum Halle Münsterland, 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 basement 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 also be presented online. 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.





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EVENT DATES

Location

Messe und Congress Centrum

Halle Münsterland

Albersloher Weg 32

48155 Münster/Germany

www.mcc-halle-muensterland.de/en

Date

April 10–11, 2024

09:00–18:00

Online participation possible

Circle of 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 and 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 |
| Speakers/Poster authors/University members (also salaried and graduate students) | € 595.00 |
| Students (up to Master's degree)* | € 295.00 |
| Participation fee online | € 1095.00 |
| University members online (also salaried and graduate students) | € 495.00 |
| 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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