



June 13-14, 2023 in Essen

# International Conference 2023

electrical + electronic systems in hybrid & electric vehicles  
electrical energy management

call for papers

**Deadline: October 28<sup>th</sup>, 2022**

## Conference Fee

Speakers pay **395,- €** (instead of 1.585,- €) to attend the conference.

[eehe.de](http://eehe.de)

## Main Topics

### Future E / E Architectures for Passenger Cars and Commercial / Agricultural Vehicles

- E / E Architectures, Topologies and Systems for
  - Hybrid / Electric and Hydrogen / Fuel Cell Vehicles
  - Reliable Power Supply Systems for Automated Driving and X-by-Wire
  - Domain, zonal and centralized Architectures
- Electrical Charging Systems and Vehicle-to-X
- High Voltage Safety and Standards
- Future Voltage Levels (48 V / 400 V / 800 V)
- Interoperability and EMC Challenges

### Energy Management in future E / E Architectures

- Electrical Energy Management and Operating Strategies
  - Control Strategies for improved Efficiency
  - Diagnostics and Safety
  - Connectivity, Big Data, Cloud Computing and Cyber Security
- Battery Management Systems & Algorithms
- Energy Management for Vehicle-to-X (Grid, Home, Device)

### Components for future E / E Architectures

- Components for Energy Storage, Power Distribution and Conversion
  - Converters, Chargers and Inverters
  - Semiconductors and Passive Components
  - Wiring Harnesses and Connectors
  - Integration
- New Technologies and Materials for Power Electronics and the Requirements for Qualification, Reliability and Robustness

## Focus Topics for 2023

- Standardization for future charging systems (e.g. megawatt-charging, bidirectional charging) and its influence on vehicle systems
- High Voltage safety and EMC
- Efficiency of electrical systems
- BEV / FCEV-architectures (e.g. how many batteries and voltage levels)
- Impact of dedicated BEV / FCEV systems on the low voltage vehicle architectures
- Fuel Cell Vehicle Systems: Technical Aspects, Technologies and Components
- High Voltage and 48 V Components and Systems
- Power Supply and Distribution Concepts for Fault-tolerant Systems
- Challenges In materials for electric vehicles

Every contribution is scheduled with 20 minutes for the presentation and 10 minutes for questions and discussion.

**The conference language will be English.**  
(Papers and slides in English!)

Additionally, posters will be presented in a poster exhibition.

### Submission of Abstracts for Papers or Posters

- Title / Headline in English and if possible additionally in German
- Speaker / Author and Co-Authors: name, address, telephone and e-mail address
- Abstract in English and if possible additionally in German
- An extended abstract of about 2 pages with a plot, diagram or chart is appreciated
- Classification into main topics
- Presenters will pay a reduced conference fee

**Please upload your documents on [www.eehe.de](http://www.eehe.de)!**



## Milestones

**Deadline** for submission of abstracts for Presentations or posters.

**October 28<sup>th</sup>, 2022**

Please upload your documents on [www.eehe.de](http://www.eehe.de)!

**February 3<sup>rd</sup>, 2023**

Confirmation of participation to the authors.

**Deadline** for submission of the final presentations.

**May 31<sup>st</sup>, 2023**



**June 13-14, 2023 in Essen**

### Venue

Haus der Technik e.V.  
Hollestraße 1  
45127 Essen / Germany

## Conference chairs

The chairmen of the international conference **eehe 2023** are:



**Dipl.-Ing. (Univ.) Ottmar Sirch**  
BMW Group (passive)  
M [ottmar.sirch@eehe.de](mailto:ottmar.sirch@eehe.de)



**Dr.-Ing. Carsten Hoff**  
Managing Director,  
CLAAS E-Systems GmbH  
M [carsten.hoff@claas.com](mailto:carsten.hoff@claas.com)

## Scientific advisory board and Program Committee

**Prof. Dr rer. nat. Ludwig Brabetz**  
University of Kassel

**Dipl.-Ing. Markus Demmerle**  
Hyundai Motor Europe  
Technical Center GmbH

**Prof. Dr.-Ing. Stephan Frei**  
TU Dortmund University

**Dipl.-Ing. Manuel Gärtner**  
STMicroelectronics

**Prof. Dr.-Ing. Hans-Georg Herzog**  
Technical University Munich

**Dr. Vera Lauer**  
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**Dr. Jan Lichtermann**  
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**Dr. rer. nat. Hartmut Pröbstle**  
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Ford Forschungszentrum  
Aachen GmbH

**Prof. Dr. Dirk Uwe Sauer**  
RWTH Aachen

**Dr.-Ing. Marc Thele**  
Porsche Deutschland GmbH

**M. Sc. Juris Tlatlik**  
HELLA GmbH & Co. KGaA

## Contact office

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