



May 14-15, 2025 | Bamberg, Germany

International Conference 2025

An event organized by



Conference language is English



NEW Join online or in person!

eehe – electrical + electronic systems in hybrid & electric vehicles, electrical energy management

DATE	May 14-15, 2025 Bamberg, Germany
LOCATION	Welcome Kongresshotel Bamberg / hdt+ digital Campus
LEADERS	Dipl.-Ing. (Univ.) Ottmar Sirch, BMW Group Dr.-Ing. Carsten Hoff, dSPACE GmbH Dipl. Inf., Dipl.-Ing. (BA) Thomas Weber, Mercedes-Benz Group AG

eehe.de

FB010/41764



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International Conference 2025

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

welcome

We invite you to the **eehe International Conference 2025**, which will take place in the modern conference rooms of the Welcome Kongresshotel in Bamberg. **For the first time, you have the opportunity to join the conference online.**

The strong growth in electromobility and the associated successful market launch of highly electrified vehicles requires a rethink by the entire automotive and supplier industry. At the same time, new trends, such as autonomous driving, are developing through progressive digitalisation and the use of highly automated technologies, to which the on-board network architectures must also be adapted.

This development requires a strong commitment of companies and institutes in all components involved: from the new on-board network structures, to power electronics, to battery production.

What does eehe 2025 offer?

The design of electric vehicles or electric cars (plug-in hybrids, full hybrids, micro-hybrids and vehicles with start-stop functions, etc.) is not only confronted with advancing developments, but also with ever increasing demands on costs and efficiency. Protagonists from research and science are facing up to the complex challenge and exchanging views on the important topics of the future together over two days at the **eehe – electrical + electronic systems in hybrid & electric vehicles, electrical energy management.**



electrical
systems



electronic
systems



electrical
energy management

AGENDA

Day 1 // 14 May 2025

09:00		Welcome & Introduction
Plenary hall		Katharina Röder HDT (Haus der Technik e.V.) Dipl.-Ing. (Univ.) Ottmar Sirch BMW Group Dr.-Ing. Carsten Hoff dSPACE GmbH Dipl. Inf., Dipl.-Ing. (BA) Thomas Weber Mercedes-Benz Group AG
09:05		Introductory lecture
Plenary hall		eehe – Review and outlook Dipl.-Ing. (Univ.) Ottmar Sirch BMW Group
09:15		Keynote 1
Plenary hall		The importance of diverse vehicle power supply architectures – benefits and challenges Dr. Felix Hoos Robert Bosch GmbH
Session Chair		Dr.-Ing. Carsten Hoff dSPACE GmbH
09:45		Coffee Break // Exhibition
10:05		Session 1A
Plenary hall		Low Voltage Power Distribution & Management Niklas Polling , Mercedes-Benz Group AG // Sven Reitz , Fraunhofer IIS/EAS // Dr. Philippe Dupuy , STMicroelectronics Application GmbH
Session Chair		Dr.-Ing. Anatoliy Lyubar Vitesco Technologies GmbH Dipl.-Ing. Tim Puetz Aptiv
10:05		Session 1B
K3		Architectural Concepts Dr.-Ing. Markus Orner , Mercedes-Benz Group AG // Manuel Eder M.Sc. und Dr. Tobias C. Traub , Robert Bosch GmbH // Dr.-Ing. Alexander Warnecke , HELLA GmbH & Co. KGaA
Session Chair		Dr.-Ing. Vera Lauer Mercedes-Benz Group AG Dr.-Ing. Marc Thele Dr. Ing. h.c. F. Porsche AG
11:35		Coffee Break // Exhibition
12:00		Poster pitch
Plenary hall		P1 - P10 Jakob Vellinger , HM Munich University of Applied Sciences // Zhongkui Lyu , TZE Hochschule Landshut // Tobias Tietze , University of Bayreuth // Dr. Jürgen Braunstein , CSM Computer-Systeme-Messtechnik GmbH // Matthias Haubner , TDK Electronics AG // Joachim Lapsien , CETA Testsysteme GmbH // Mutsa Chirasha , Harare Institute of Technology // Wajih Wertateni , BRUSA HyPower AG // Dr. Marco Barbolini , Röchling Automotive // Lukas Malfatti B.Sc. , Röchling Automotive
Session Chair		Dipl. Inf., Dipl.-Ing. (BA) Thomas Weber Mercedes-Benz Group AG
12:30		Lunch Break // Poster // Exhibition

14:00 | Overview

Plenary hall Circular Economy in Power Electronics – Status 2025
Ole Gerkenmeyer
Nexperia Germany GmbH

Session Chair **Dipl.-Ing. (Univ.) Ottmar Sirch**
BMW Group

14:30 | Coffee Break // Exhibition

14:50 | Session 2A

Plenary hall Charging
Dipl.-Ing Martin Dierkes, HELLA GmbH & Co. KGaA //
Dr.-Ing. Sebastian Bothor, Intelligent Energy System
Services GmbH // **Ruben Kopischke M.Sc.**, University of Kassel //
Dr. Stephan Hell, Compleo Charging Solution AG

Session Chair **Guido Schütte**
HELLA GmbH & Co. KG

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

14:50 | Session 2B

K3 Components & Requirements for Power Electronics
Dr. Christian Kasper, Vacuumschmelze GmbH & Co. KG //
Dr. Moritz Teuber, HELLA GmbH & Co. KG // **Marcel Schwinger**,
Mercedes-Benz Group AG // **Haris Muhedinovic**, Vicor

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

Dr.-Ing. Tomas Reiter
Infineon Technologies AG

16:50 | End of Day 1

17:30 | Come together at the „Bootshaus“



Location



Bootshaus im Hain
Mühlwörth 18 a
96047 Bamberg
www.bootshaus-restaurant.de

Day 2 // 15 May 2025

08:30 | Keynote 2

Plenary hall Market observation and technical innovations
for lithium-based batteries
Prof. Dr. rer. nat. Dirk Uwe Sauer
RWTH Aachen University | ISEA

Session Chair **Dr.-Ing. Carsten Hoff**
dSPACE GmbH

09:00 | Coffee Break // Exhibition

09:05 | Session 3A

Plenary hall Power Electronics for Traction Inverters
Hakan Akabay, Infineon Technologies AG // **Giuseppe Scuderi**,
STMicroelectronics // **Peter Luniewski**, Infineon Technologies AG //
Andrea Spampinato, STMicroelectronics

Session Chair **Dr.-Ing. Tomas Reiter**
Infineon Technologies AG

Dipl.-Ing. Manuel Gärtner
STMicroelectronics

09:05 | Session 3B

K3 **Battery Management**
Stephan Revidat, Hyundai Motor Europe Technical Center GmbH //
Dr. Hortensia Amaris, University Carlos III of Madrid //
Marcell Misznéder M.Sc., University of Stuttgart //
Dipl.-Ing. Markus Plöger, dSPACE GmbH

Session Chair **Prof. Dr. rer. nat. Dirk Uwe Sauer** **Prof. Dr.-Ing. Stephan Frei**
 RWTH Aachen University | ISEA TU Dortmund University

11:05 | Coffee Break // Poster // Vehicle Exhibition

11:30 | Session 4A

Plenary hall **Reliable Power Supply Systems**
Dipl.-Ing. Jonas Stüble, Robert Bosch GmbH //
Michael Daimer, Texas Instruments //
Benedikt Köberlein, BMW AG

Session Chair **Dipl.-Ing. Bastian Hartmann** **Dr.-Ing. Marc Thele**
 Ford Research and Dr. Ing. h.c. F. Porsche AG
 Innovation Center Aachen

11:30 | Session 4B

K3 **Battery Diagnosis for Quality & Reliability**
Ph. D. Filippo Bonaccorso, STMicroelectronics //
Dr.-Ing. Alejandro Cárdenas Miranda, TWT GmbH Science &
 Innovation // **Dipl.-Ing. Domingos Carapinha**, Schaeffler AG

Session Chair **Dr. rer. nat. Hartmut Pröbstle** **Prof. Dr.-Ing. Stephan Frei**
 BMW Group TU Dortmund University

13:00 | Lunch // Exhibition // Poster // Vehicle Exhibition

14:20 | Session 5A

Plenary hall **Stabilization of Power Supply Systems**
Dipl.-Ing. Fadi Rifai, Schaeffler AG // **Michael Gerten M.Sc.**,
 TU Dortmund University // **Jonathan Harper**, onsemi

Session Chair **Dr.-Ing. Jan Lichtermann** **Dr. Michael Frauenhofer**
 Robert Bosch GmbH Audi AG

14:20 | Session 5B

K3 **Methods & Tools**
Dr. Enrique Guerrero Merino, TWT GmbH Science & Innovation //
Marvin Rübartsch, TU Dortmund University //
Dipl.-Wirt.-Ing. Julian Saele, dSPACE GmbH

Session Chair **Dr. rer. nat. Hartmut Pröbstle** **Prof. Dr.-Ing. Mohamed Ayeb**
 BMW Group University of Kassel

15:50 | Summary and farewell
Dr.-Ing. Carsten Hoff **Dipl. Inf., Dipl.-Ing. (BA)**
 dSPACE GmbH **Thomas Weber**,
 Mercedes-Benz Group AG

16:00 | End of the Conference



Conference Chairmen



Dipl.-Ing. (Univ.) Ottmar Sirch
BMW Group



Dr.-Ing. Carsten Hoff
dSPACE GmbH



Dipl. Inf., Dipl.-Ing. (BA) Thomas Weber
Mercedes-Benz Group AG

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RWTH Aachen University | ISEA

Guido Schütte
HELLA GmbH & Co. KGaA

Dr.-Ing. Marc Thele
Dr. Ing. h. c. F. Porsche AG



Who should take advantage of the conference?

The **eehe International Conference 2025** offers a compelling agenda tailored for experts, managers, researchers, and students dedicated to vehicle electrification. This must-attend event brings together manufacturers, suppliers, development partners, and academic professionals to explore cutting-edge innovations in:

- Architectures and components for electrification, on-board energy networks, and vehicle systems
- Electric charging and infrastructure
- Electrical energy management
- Low-voltage energy storage
- Battery management systems
- Power electronics
- E/E systems for passenger and commercial vehicles

Join us to gain valuable insights, network with industry leaders, and shape the future of mobility!

Book your stand at the exhibition

We anticipate that the trade exhibition for **eehe 2025** will fill up rapidly. Therefore, we encourage you to promptly secure your exhibition stand by registering in advance. You can also find details about our promotional media for the conference in the order form.

Join the exhibition and present your company, products and services.

More information and the order sheet
www.eehe.de/en/exhibition-2025



Location

Welcome Kongresshotel Bamberg
Mußstraße 7 · 96047 Bamberg
www.welcome-hotels.com/hotels/bamberg-kongresshotel



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Category	Price in Euro
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Participation fee HDT-Members	€ 1445.00
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