



JUNE 22 - 23, 2022 IN BAMBERG

# INTERNATIONAL EEHE CONFERENCE

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



**ELECTRIC & ELECTRONIC SYSTEMS IN HYBRID  
AND ELECTRIC VEHICLES AND ELECTRICAL  
ENERGY MANAGEMENT**



FB010/40100



JUNE 22-23, 2022 IN BAMBERG

# WELCOME TO THE EEHE CONFERENCE

The EEHE was created 10 years ago by combining the HDT conferences “Energy Management and Onboard Networks”, “Electrics/Electronics in Hybrid and Electric Vehicles” and “Motor Start/Stop Systems” and has established itself internationally as a discussion platform. At this conference with a strong technical focus, the Haus der Technik brings together developers, users and researchers and promotes professional exchange on the following topics

- E/E architectures for passenger cars and commercial/agricultural vehicles
- Energy management and subcomponents of these E/E architectures.

In addition to the diverse topics on **electromobility and energy management**, the conference also highlights

- electrification in all its form
- aspects of a reliable power supply for safety-relevant systems
- autonomous driving.

**In June 2022, participants will finally once again meet all the players on the important future topics of automotive development at a single conference in Bamberg.**

The attractive program of the EEHE conference is aimed at experts, managers and scientists as well as students working on the electrification of vehicles. A must-attend event for manufacturers, suppliers, development partners, and employees of universities and research institutions. The main topics are

- Architectures and components for electrification, on-board energy networks, on-board systems and components
- electric charging with infrastructure
- electrical energy management
- low-voltage storage
- battery management
- power electronics
- E/E systems for commercial and agricultural vehicles of all kinds.

## AGENDA

DAY 1 // JUNE 22, 2022

### 09:00 | GREETINGS

Dipl.-Ing. Bernd Hömberg, Haus der Technik e. V.  
Dr. Carsten Hoff, CLAAS KGaA mbH  
Dipl.-Ing. Ottmar Sirch, BMW Group

### 09:10 | INTRODUCTION

Dipl.-Ing. Ottmar Sirch, BMW Group

### 09:30 | KEYNOTE

Electrification at Stellantis  
Roland Matthé, Stellantis N.V.

### 10:10 | SHORT BREAK

## 10:25 | PARALLEL SESSION 1

### 1A: POWER ELECTRONICS I – TRACTION INVERTERS

Dima Novo, VisIC-Technologies // Maximilian Barkow,  
Dr. Ing. h.c. F. Porsche AG // Dr.-Ing. Shankar Karanilam  
Thundiparambu Ravindran, Swoboda Schorndorf KG

### 1B: ENERGY MANAGEMENT AND SUSTAINABILITY

Dr.-Ing. Florian Uhrig, Vitesco Technologies GmbH //  
M. Sc. Benjamin Löwer, Universität Kassel // Alexander Kohs,  
Bertrandt AG

### 11:55 | LUNCH BREAK & EXHIBITION

## 13:15 | OVERVIEW 1

### 1A – POWER GRID

#### **Framework Conditions for e-Mobility from the Perspective of Electrical Power Grids**

Prof. Dr.-Ing. Michael Mann, TU Aschaffenburg

### 1B – E/E FOR AGRICULTURAL VEHICLES

#### **Agricultural industry applications, use cases and challenges of the medium voltage (48V)**

Alexander Schultz-Storz (representing AEF),  
Panasonic Industry Europe GmbH

### 13:55 | SHORT BREAK

## 14:00 | PARALLEL SESSION 2

### 2A: CHARGING INFRASTRUCTURE

Michael Scholz, P3 automotive GmbH // Jacob Kamhuber, Ionity //  
tbd, N.N.

### 2B: 48V ARCHITECTURES AND SYSTEMS

Richard Weldle, Vitesco Technologies // Horst Mettlach, Stellantis //  
Dipl.-Ing. Dirk Zündorf, Renesas Electronics Europe GmbH

15:30 | **COFFEE BREAK**

15:45 | **PLENARY DISCUSSION – HYBRID QUO VADIS**

Session chairs: Dr. Vera Lauer // Prof. Dr.-Ing. Hans-Georg Herzog

**Thoughts from a traveller from 12 to 48V  
and beyond to High Voltage**

Thomas Weber, Daimler AG

**Is Hybrid already a new dinosaur?**

Nicolas Fremau, Renault SA

17:30 | **END OF DAY 1**

18:30 | **COME TOGETHER**

Location to be announced

DAY 2 // JUNE 23, 2022

08:30 | **OVERVIEW 2**

2A – POWER SEMICONDUCTORS

**tbd**

Sebastiano Yuri Ciardo, STMicroelectronics

2B – ENERGY STORAGE

**2nd life Ampera battery packs charge up the  
next generation electric vehicles**

Roland Matthé, Stellantis

09:00 | **SHORT BREAK**

09:05 | **PARALLEL SESSION 3**

**3A: ELECTRONIC FUSES**

Dr. Philippe Dupuy, STMicroelectronics // Carina Eckert,  
BMW Group // M.Sc. Michael Gerten, TU Dortmund

**3B: 48V COMPONENTS**

Dr. Michael de Rooij, Efficient Power Conversion //  
Fabio Mello, TDK Electronics AG // Jakob Groß,  
P3 automotive GmbH

10:35 | **COFFEE BREAK & EXHIBITION**

10:55 | **PARALLEL SESSION 4**

**4A: POWER ELECTRONICS II – CHARGING**

Dr.-Ing André Körner, Hella GmbH & Co. KGaA // Dr. Frank  
Schafmeister, Paderborn University // Lisa Marie Holzmann,  
Infineon Technologies AG

**4B: RELIABLE POWER SUPPLY**

Dipl.-Ing. Christian Sülthrop, Fraunhofer IISB //  
M.Sc. Laurenz Tippe, TU München // Julian Taube,  
TU München

SEMINAR EMPFEHLUNG:

# HOCHVOLT-BORDNETZ IN ELEKTRO- UND HYBRIDFAHRZEUGEN

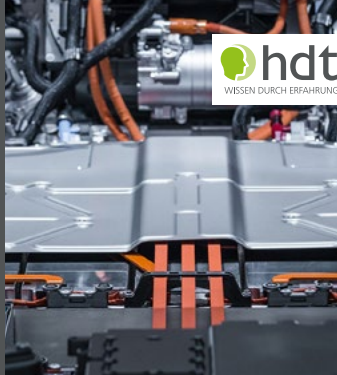
Basierend auf ISO PAS 19295  
und ISO DIS 21498

TERMIN 29. Juni 2022

ORT Haus der Technik e.V., Essen

LEITUNG Dr. rer. nat. Manuel Röder

[hdt.de/VA22-01154](https://hdt.de/VA22-01154)



## 12:25 | LUNCH BREAK & EXHIBITION

### 13:45 | OVERVIEW 3

#### 3A – STANDARDIZATION

**Standardization of electrically propelled vehicles in the context of international rapidly evolving technologies**

Daniel Pacner, VDA

#### 3B – BATTERY TRENDS

**Batterien für EVs und Antriebsstränge – Aktuelle Trends und Leistungsdaten**

N. N., RWTH Aachen

## 14:15 | SHORT BREAK

### 14:20 | PARALLEL SESSION 5

#### 5A: ENERGY STORAGE SYSTEMS

Dr. Sebastian Pohlmann, Skeleton Technologies Group //  
Ayman Ayad, Vitesco Technologies GmbH //  
Dipl.-Ing. (FH) Dennis Kurzweil, Ford Research & Innovation  
Center Aachen // M. Sc. Weihan Li, ISEA – RWTH Aachen

#### 5B: VEHICLE POWER SUPPLY ARCHITECTURES

Dr.-Ing. Joachim Fröschl, BMW Group // Dr. Antoni Ferré,  
LEAR Corporation // Mathias Dunst, Institute for Automotive  
Engineering (ika), RWTH Aachen // Dipl.-Ing. Rainer Knorr,  
Vitesco Technologies GmbH

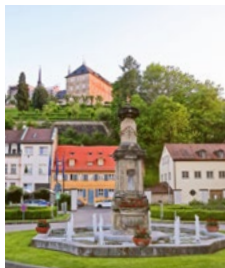
## 16:20 | SUMMARY AND GOOD BYE

Dipl.-Ing. Ottmar Sirch, BMW Group  
Dr. Carsten Hoff, CLAAS KGaA mbH

## 16:30 | END OF CONFERENCE

Detailed information:  
[www.eehe.de](http://www.eehe.de)





## EEHE CONFERENCE 2022 IN BAMBERG

With EEHE – Electric & Electronic Systems in Hybrid and Electric Vehicles and Electrical Energy Management – Haus der Technik provides a brilliant opportunity for developers, users and researchers to meet. The conference attendants thus have a chance to meet all important players in the industry at a single conference.

**IN 2022, THE EEHE CONFERENCE WILL FINALLY TAKE PLACE AGAIN AS A FACE-TO-FACE EVENT. YOU CAN EXPECT INTERESTING KEYNOTE SPEECHES, POSTER PRESENTATIONS AND AN EXCITING INDUSTRY EXHIBITION.**

Electric and electronic architectures for various electrified powertrains take centre stage just like power electronics, high and low voltage energy storage systems, charging technology and components. Further topics are general issues concerning electric mobility, market development and regulations but also safe and reliable on-board electricity supply for highly automated and autonomous driving.

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

## EEHE CONFERENCE 2022 IN BAMBERG

The chairmen of the international EEHE conference (Electrics/Electronics in Hybrid and Electric Vehicles and Electrical Energy Management) are:



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



**Dr.-Ing. Carsten Hoff**  
CLAAS KGaA mbH

## KEYNOTE-SPEAKER



**Roland Matthé**  
Stellantis

## OVERVIEW SPEAKER

**Prof. Dr.-Ing. Michael Mann**  
TU Aschaffenburg

**Alexander Schultz-Storz** (representing AEF),  
Panasonic Industry Europe GmbH

**Roland Matthé**  
Stellantis

**Sebastiano Yuri Ciardo**,  
STMicroelectronics

**Daniel Pacner**  
VDA

**N. N.**  
RWTH Aachen

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**Online-Buchung:**  
[www.eehe.de](http://www.eehe.de)

**Conference language is English**



**PARTICIPATION FEE**

CATEGORY	PRICE IN EURO
Regular Fee	1.485,00 €
Co-author	995,00 €
Speaker/Author, Employee of university, graduate students	395,00 €
Students	245,00 €

Registration on: [www.eehe.de/registration](http://www.eehe.de/registration)

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