



**AUTOMOTIVE CIRCLE**  
CONFERENCE

# BATTERY SYSTEMS IN CAR BODY ENGINEERING 2021

26 – 27 OCTOBER 2021  
BAD NAUHEIM  
GERMANY

CAR BODY ENGINEERING

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the early bird  
rate!



## BATTERY SYSTEMS FOR EVS: EM-POWERING ELECTRIFICATION

The question of the best possible integration of the battery is coming into focus today more than ever, as OEMs around the world are adding more and more new, fully electric vehicles to their product portfolios, and many newcomers entering the automotive scene are even focusing entirely on battery electric vehicles.

What are the best OEM and supplier solutions for building EV battery systems today, and how are these battery systems best integrated into the car body structure? Our conference addresses both of these questions and provides answers that focus on a wide range of solutions, from smart and efficient surface treatment and leak testing methods to the latest material developments for innovative battery case concepts, to new cell-to-pack solutions.

We are particularly happy to be able to invite our network of automotive engineers to an in-person conference again this year, to enjoy face-to-face discussions and networking opportunities, and offer first-hand impressions of the Porsche Taycan BiW as well as the other demonstrators that will be available on site in Bad Nauheim.



We have missed you, and we are very much looking forward to meeting you in Bad Nauheim in October.

**Dr. Sibylle Freitag**  
Presidium  
Automotive Circle

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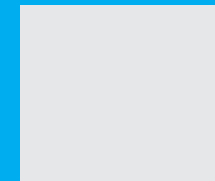
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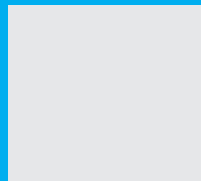
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MEET THE  
LEADING  
OEM NETWORK

# PROGRAM

## TUESDAY, OCTOBER 26, 2021

**9.00 h** **Welcome**  
*Dr. Sibylle Freitag, Automotive Circle, DE*

### NEW BATTERY CASE MATERIAL SOLUTIONS – LIGHTWEIGHT AND MULTIFUNCTIONAL

**9.15 h** **Lightweight and cost-effective battery housing case concept adapting aluminum and steel for EVs**  
*Dr. Toru Hashimura, Kobe Steel Ltd., JP*

**9.45 h** **Multi-material composite battery enclosure for battery electric vehicles**  
*Dr. Kristian Seidel, Teijin Automotive Center Europe GmbH, DE*

**10.15 h** ☕ **COFFEE AND CONTACTS & 👤 MEET THE SPEAKERS**

**10.45 h** **Experimental investigation on lightweight potentials of fiber-metal-laminates for automotive battery cases**  
*Tim Stallmeister, Paderborn University, DE*

**11.15 h** **Composite battery enclosure design – beyond lightweighting**  
*Richard Gordon, Ricardo PLC, UK; John Hackett, Solvay S.A., UK*

**11.45 h** **SMC-Aluminum lightweight battery case design with switchable temperature control functionality**  
*Rico Schmerler, Fraunhofer Institute for Machine Tools and Forming Technology IWU, DE*

**12.15 h** 🍴 **LUNCH BREAK & 👤 MEET THE SPEAKERS**

### BATTERY CASES – ADVANCED CONCEPTS AND STRUCTURAL INTEGRATION

**13.45 h** **Customized solutions for structurally integrated high-voltage batteries: Opportunities and challenges**  
*Christian Kürten, FEV Vehicle GmbH, DE*

**14.15 h** **New battery box cell to pack concept**  
*Sérgio Faria, Gestamp, ES*

**14.45 h** **Advanced, highly efficient and innovative EV battery enclosure system**  
*Leon Kaunitz, Novelis, US*

**15.15 h** ☕ **COFFEE AND CONTACTS & 👤 MEET THE SPEAKERS**

### OEM REPORTS

**16.00 h** **New Megane E-Tech Electric: Smart battery packaging in new Renault platform**  
*Wolfgang Bogel; t.b.a., Groupe Renault, FR*

**16.30 h** **The battery system of the Porsche Taycan**  
*Marco Schmerbeck, Porsche AG, DE*

**17.15 h** 👤 **MEET THE SPEAKERS**

**17.30 h** **End of first conference day**

**18.30 h** 👤 **NETWORKING NIGHT**

**BODY IN WHITE AND BATTERY CASE ON SITE**

## WEDNESDAY, OCTOBER 27, 2021

**8.30 h** **Creation of a development tool for the evaluation of BEV floor and battery structures**  
*Denis Schmitz, Forward Engineering GmbH, DE*

### PROCESS TECHNOLOGY PREPARATIONS AND SOLUTIONS

**9.00 h** **Surface preparation in battery production for joining and electrical bonding application**  
*Edwin Büchter, Clean-Lasersysteme GmbH, DE*

**9.30 h** **Smart solutions for integrated battery module and pack assembly as well as dispensing processes**  
*Sebastian Gries, Dürr Systems AG, DE; Oliver Zink, Teamtechnik, DE*

**10.00 h** ☕ **COFFEE AND CONTACTS & 👤 MEET THE SPEAKERS**

**10.45 h** **Structural adhesive enabling MEB battery box mass production**  
*Dr. Felix Koch, DuPont, CH; Malte Cohrs, Volkswagen AG, DE*

# PROGRAM

## QUALITY INSPECTION AND LEAK TESTING INNOVATIONS

- 11.15 h** **Quality inspection system for batteries**  
*Dr. Markus Tiemann, Automation W+R GmbH, DE*
- 11.45 h** **Live measurement of welding depth and seam inspection with optical coherence tomography**  
*Richard Steinbrecht, Lessmüller Lasertechnik GmbH, DE;*  
*Marius Schwarz, Mercedes-Benz AG, DE*
- 12.15 h** **🍴 LUNCH BREAK & 👥 MEET THE SPEAKERS**
- 13.30 h** **Functional tightness of mechanically attached fasteners**  
*Dr. Tobias Jene, Profil Verbindungstechnik GbmH & Co. KG, DE*
- 14.00 h** **Why tracer gas is going to be the future**  
*Pascal Schröer, innomatec Test- und Sonderanlagen GmbH, DE*

## HYBRID STORAGE SYSTEM FOR ELECTRIC PLATFORMS

- 14.30 h** **Energy Storage System for hybrid FCEV**  
*Dr. Stefan Caba, EDAG Engineering GmbH, DE*
- 15.00 h** **Conclusion**  
*Dr. Sibylle Freitag, Automotive Circle, DE*
- 15.15 h** **End of conference**

*Subject to change (status as of September 2021)*



## EXHIBITION

Visit the accompanying exhibition during the breaks and inform yourself about new products and services around battery production and integration!



## YOUR PLUS



### LIVE POLLS

You want to know what moves the industry? Direct your questions to the audience via live polls and benefit from the gathered expert knowledge on site.



### MEET THE SPEAKERS

Ask the speakers your individual questions! During the breaks, all speakers are available for one-to-one discussions.



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## SAFE TOGETHER – OUR HYGIENIC CONCEPT

We are your host and service provider and we take this responsibility very seriously. We are actively available to answer all your questions about your participation. We want you to feel comfortable, from the moment you decide to take part in conference until long after your departure. We will organise a professional and practical framework so that you can relax and enjoy your participation. We always do this, but this time of course with even more emphasis in view of the pandemic situation. More information on [www.automotive-circle.com](http://www.automotive-circle.com).

## YOUR CONTACTS

### ORGANISATION

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