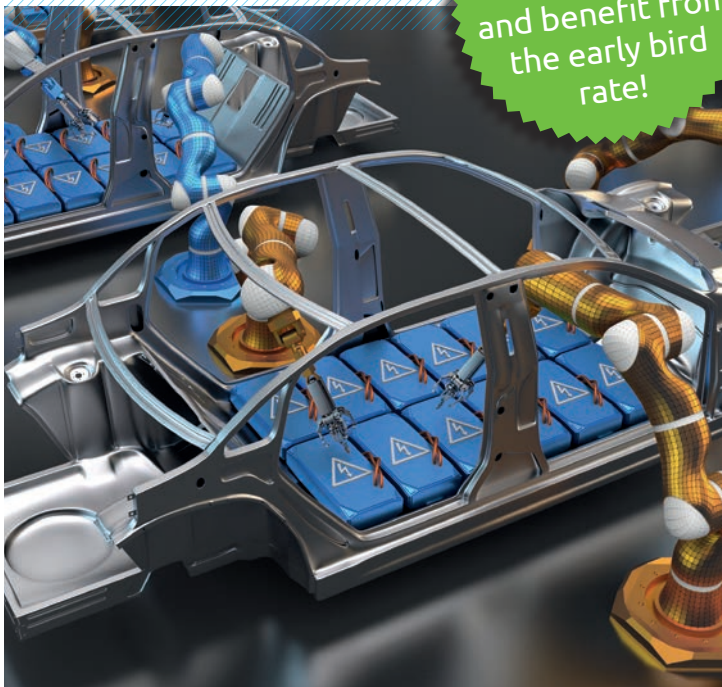


# BATTERY SYSTEMS IN CAR BODY ENGINEERING 2019

26 – 27 JUNE 2019  
BAD NAUHEIM  
GERMANY

CAR BODY ENGINEERING

Register  
**NOW**  
and benefit from  
the early bird  
rate!



# INNOVATIVE SOLUTIONS FOR THE INTEGRATION OF BATTERIES AND BATTERY SYSTEMS INTO THE CAR BODY

The foot has been taken off the break – after a hesitant start, the change of direction in the automotive industry towards e-mobility is finally in full swing. Many current projects are still under lock and key, but a few models have already been launched, and many solutions exist for the battery systems of today and tomorrow.

In terms of safety, weight, function, cost and production efficiency, how can the battery best be integrated into the car body structure? Which innovative approaches are there with regard to battery technology, heat management, joining techniques, and how do they affect the integration of the battery into the car body? What new concepts for battery housings exist and which possibilities do they offer in terms of safety, crash, fire protection, lightweight design, cost efficiency etc.?

We are looking forward to discussing these and many more questions at our conference with you.



**Sibylle Freitag**  
Presidium  
Automotive Circle



## **THE CONFERENCE ADDRESSES:**

Car body engineers, managers and employees of OEMs, suppliers and institutes working in the field of battery systems.

# 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.



## FOCUS WORKSHOP

At the focus workshop, specific topics of the conference will be discussed together in small groups and the results will be presented afterwards. Exchange ideas with other experts at eye level and get solutions for your daily challenges!



## MEET THE SPEAKERS

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

## INTERNATIONAL OEM ADVISORY BOARD



Dr. Michael Frauenhofer,  
**Audi AG, DE**



Rene Wolf,  
**Ford-Werke GmbH, DE**



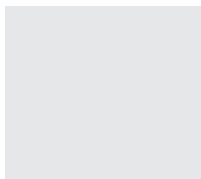
Leon I. Kaunitz,  
**Nio USA, Inc., US**



Shinichi Serino,  
**Nissan Motors Co.,  
Ltd., JP**



Frederic Tronel,  
**Renault S.A.S., FR**



Sven Crull,  
**Volkswagen AG, DE**

**MEET THE  
LEADING  
OEM NETWORK**

# PROGRAMME

The conference will be moderated by:  
**Dr. Sibylle Freitag**, Automotive Circle, DE  
**Dr. Michael Fraunhofer**, Audi AG, DE



**WEDNESDAY, 26<sup>TH</sup> JUNE 2019**

**8.45 h**      **Welcome and conference introduction**

*Dr. Sibylle Freitag, Automotive Circle, DE*

## MATERIAL AND JOINING INNOVATIONS

**9.00 h**      **Aluminium battery enclosures for electric vehicles:  
focus on new leak and intrusion testing methods and  
thermal management integration**

*Kai Schwarz, Constellium N.V., DE*

**9.30 h**      **Structural bonding and sealing of battery enclosures**

*Dr. Andreas Lutz, DuPont, CH*

**10.00 h**      **Functional materials for battery integration:  
structural reinforcements, joining & thermal  
management**

*Dr. Stefan Kreiling, Henkel AG & Co. KGaA, DE*

**10.30 h**      ☕ **Coffee & contacts**

👥 **Meet the speakers**

## JOINING INNOVATIONS II

**11.00 h**      **Development of refill friction stir spot welding for  
aluminum-copper dissimilar joints**

*Dr. Uceu Suhuddin, Helmholtz-Zentrum Geesthacht, DE*

**11.30 h**      **EMPT-lightweight battery carrier made of aluminium  
and mixed aluminium/steel joints**

*Oliver Marschner, PSTproducts GmbH, DE*

**12.00 h**      **Laser joining of battery boxes with existing and  
modified technologies: ensuring process reliability  
and new requirements**

*Stefan Mücke, Scansonic MI GmbH, DE*

**12.30 h**      🍴 **Lunch break**

👥 **Meet the speakers**

**13.45 h**      💬 **Live polls**

## ADVANCED CONCEPTS IN BATTERY SYSTEM ENGINEERING I

**14.00 h**    **Maximising range and performance through innovative EV system integration – from racetrack to road**

*Dyrr Ardash, Williams Advanced Engineering, GB*

**14.30 h**    **Advanced concepts in battery system engineering**

*Leon Kaunitz, Nio, US*

**15.00 h**    ☕ **Coffee & contacts**

👥 **Meet the speakers**

**15.30 h**    **Focus workshop: challenges in battery system integration into the car body**

- *What are the main cost drivers with regard to EV batteries and their integration into the car body, and how can they be addressed?*
- *Regarding battery module integration, will we still need battery housings in the future?*
- *Thermal management: will we see more direct or indirect module cooling in the future? Which other trends are noticeable?*

*Moderated by the OEM Advisory Board*

**17.30 h**    **End of day 1**

**18.30 h**    👥 **Get together**

**19.00 h**    👥 **Networking Night**

**THURSDAY, 27<sup>TH</sup> JUNE 2019**

## FUTURE DEVELOPMENTS IN BATTERY TECHNOLOGY

**9.00 h**    **Embatt – chassis embedded energy**

*Michael Clauß, IAV GmbH, DE*

## ADVANCED CONCEPTS II: ENABLING AGILE AND INTELLIGENT DEVELOPMENTS

**9.30 h**    **Agile automation development in battery module production**

*Dirk Zimmer, ATN Hölzel GmbH, DE*

**10.00 h**    **Intelligent tolerance compensation in next-gen vehicles**

*Michael Tüllmann, Philip Weinberger, Witte-Velbert GmbH & Co. KG, DE*

10.30 h ☕ **Coffee & contacts**  
👥 **Meet the speakers**

11.00 h **Agile development of a modular toolbox for HV battery housings**

*Dr. Michael Funcke, fka GmbH, DE; Karl Radlmayr, voestalpine Metal Forming GmbH, AT*

11.30 h 🗳️ **Live polls**

11.45 h **Panel Discussion:**

- Battery system standardization vs differentiation
- Battery swapping vs. integration
- Battery capacity vs. weight

12.15 h 🍴 **Lunch break**  
👥 **Meet the speakers**

## **MATERIAL INNOVATIONS FOR BATTERY ENCLOSURES**

13.45 h **A lightweight, affordable aluminum sheet battery enclosure for high-volume BEVs**

*Donald Whitacre, Novelis, US*

14.15 h **Battery housing in lightweight steel design for safe and affordable electric mobility**

*Daniel Nierhoff, thyssenkrupp Steel Europe AG, DE*

14.45 h **High strength martensitic steel battery pack concept: a good balance of cost, performance and weight**

*Matthieu Amblard, ArcelorMittal, FR*

15.15 h **Fire-protected non-crimp glass fabric for lightweight battery housings**

*Steven Bakker, Saertex GmbH & Co. KG, DE*

15.45 h **Wrap-up and farewell**

*Dr. Sibylle Freitag, Automotive Circle, DE*

16.00 h **End of conference**



*Subject to change (status as of 21 May 2019)*

**Programme updates at:**  
**[www.automotive-circle.com](http://www.automotive-circle.com)**





## EXHIBITION

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



*Performance by design*



thyssenkrupp



# TERMS & CONDITIONS

## REGISTRATION PROCEDURES

Vincentz Network GmbH & Co. KG  
Automotive Circle  
Plathnerstr. 4c, DE-30175 Hannover  
T +49 511 99 10-383, F +49 511 99 10-379  
mareike.baumlein@vincentz.net

## ONLINE REGISTRATION

www.automotive-circle.com

## DATE AND VENUE

26 – 27 June 2019

Hotel Dolce Bad Nauheim  
Elvis-Presley-Platz 1  
DE-61231 Bad Nauheim  
T +49 6032 303-0, F +49 6032 303-529  
www.dolcebadnauheim.com  
info@dolcebadnauheim.com

We kindly ask you to make your own hotel reservation at the conference hotel, please refer to Automotive Circle. The hotel offers special room rates from 139,- € to 159,- € depending on different cancellation conditions. The mentioned room rates include 5,- € breakfast per person and per day.

## CONFERENCE FEES

Early bird: 1.895,- €\*  
Standard: 1.995,- €\*

Early bird price available until 18 June 2019. Students will get 50 % discount on standard prices on presentation of a valid student ID.

\* All prices plus 19 % German VAT. All conferences in Europe are subject to VAT. To reclaim, please contact your local tax office.

## CONFERENCE FEES INCLUDE

Fees including full conference participation, incl. list of delegates and the authority for downloading the presentation on the internet, luncheons, catering and the participation in the evening networking event.

## CONFERENCE LANGUAGE

The conference will be translated simultaneously into English and German. Please note that the contents of lectures and presentations at simultaneously interpreted conferences are predominately composed in the English language.

## CANCELLATIONS

Fees will be refunded in full if notice of cancellation is received by 25 May 2019. 50 % of the conference fees will be refunded in case notification of cancellation is received later, but not later than 11 June 2019.

Delegates who fail to attend without notifying the organiser will be liable for the whole conference fees. Substitutions of delegates may be made at any time. Cancellations and changes should be notified in writing. In all cases date of postmark shall apply. Any fees to be refunded will be paid after the end of the conference. The organiser reserves the right to change the programme content or to cancel the event due to important reasons. Cancellation fees of third parties that may appear in this context will not be reimbursed.

## DATA PROTECTION

Vincentz Network produces a list of delegates for each event which may include the following information: company name, address (zip code, city, country), name and job function of delegate. This list of delegates will be made available for all conference delegates, speakers, exhibitors and sponsors of the event, who may use the data for promotional purposes. Objection against publication and circulation of this data may be made at any time until 3 weeks prior to the event and has to be made in writing to the organiser. Company's name, city and country might be published on the internet as reference for upcoming Automotive Circle conferences.

## PLEASE NOTE

By registering you understand that your participation and attendance at the conference may be videotaped, filmed and/or audio recorded. You agree that the recording may be used for any lawful purposes that Vincentz Network, or its designees, in their sole discretion, may determine. The address data are processed for customer service and information purposes in compliance with the German Federal Data Protection Law. Company's name, city and country might be published on the Internet as reference for the upcoming conferences of Automotive Circle.

## PICTURES

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Vincentz Network

## YOUR CONTACT

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T +49 511 9910-383  
mareike.baumlein@vincentz.net



## REGISTRATION

# BATTERY SYSTEMS IN CAR BODY ENGINEERING 2019

### Hereby I register for:

- CONFERENCE** 26 – 27 June 2019  
Early bird: 1.895,- €\* (until 18. June 2019)  
Standard: 1.995,- €\*

\* plus 19 % German VAT

Title First Name

Name

E-Mail

Phone

Company

Department Function

Street

Zip Code/City

Country

Order No.

### METHOD OF PAYMENT

- Credit Card**  
 American Express  Mastercard  Visa

Card Holder Expiry Date

Card Number Verification Code

- Yes, I want to be informed about future Vincentz Network events and products via e-mail.**

Date, Signature

[www.automotive-circle.com/mail](http://www.automotive-circle.com/mail) to: [info@automotive-circle.com](mailto:info@automotive-circle.com)



REGISTER  
**NOW**

Register until **18 JUNE** and benefit from  
the early bird fee!

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Automotive Circle  
Plathnerstr. 4c // DE-30175 Hannover

