

# DOORS AND CLOSURES IN CAR BODY ENGINEERING 2018

9<sup>TH</sup> INTERNATIONAL  
BENCHMARKING CONFERENCE

13 – 14 NOVEMBER 2018  
BAD NAUHEIM, GERMANY

CAR BODY ENGINEERING

**PLUS**  
DOORS & CLOSURES  
SYSTEMS AWARD



## FUNCTIONALITY AT THE HIGHEST LEVEL

Doors and closures are among the most important discernable vehicle modules having to comply with a variety of engineering related requirements. They are crash and lightweight relevant, combine functions in a confined space and are largely responsible for the optical design.

Furthermore, upcoming electrification, connectivity and autonomous driving lead to additional challenges. How will these subjects influence the components? What new functions will future doors and closures provide? Which materials and technologies will be used?

The annual international Automotive Circle conference Doors and Closures in Car Body Engineering addresses current and future challenges engineers for hang-on parts have to face.

With **9 OEM presentations** and reports on current developments by suppliers, engineering service providers and relevant research institutions, the conference again gathers its international network of expert automobile engineers.

Be part of this event and actively participate in the conference with your questions, discussions, evaluations and benchmark activities.



We are looking forward seeing you in Bad Nauheim!

A handwritten signature in black ink that reads "Sabine Scharf".

**Sabine Scharf**  
Presidium  
Automotive Circle



## TECHNOLOGY CLINIC

**FOCUS TOPIC 2018:**  
**CONTROL SWITCHES OF WINDOW REGULATOR  
AND EXTERIOR WINDOW MIRROR**

The conference participants are invited to compare and evaluate the control switches of window regulator and exterior window mirror regarding their ergonomics, intuitive handling as well as haptics and perceived quality.



## DOORS & CLOSURES SYSTEMS AWARD

As a conference delegate, you are part of the jury that decides on the winner of this year's **Doors & Closures Systems Award**. This award is bestowed by the Automotive Circle for the eighth time, for the most convincing series OEM hang-on part development regarding construction as well as production processes.

### COMPETITORS 2018:

#### BMW Group

The door system of the new i8 Roadster

#### Groupe PSA

The door system of the new Peugeot 508

#### Groupe Renault

The door system of the new Alpine

#### Jaguar Land Rover

The door system of the new Jaguar I-Pace

## INTERNATIONAL OEM ADVISORY BOARD



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MEET THE  
LEADING OEM  
NETWORK

# PROGRAMME

## MONDAY, 12 NOVEMBER 2018

- 17.00 h- Technology Briefing**  
**19.00 h** (Registration mandatory. For details, see below.)
- 19.00 h- 🐾 Welcome reception and handover of conference documents**  
**21.00 h**

## TUESDAY, 13 NOVEMBER 2018

- 8.00 h Registration and handover of conference documents**
- 9.00 h Welcome and conference introduction**  
*Sabine Scharf, Automotive Circle, DE*
- 9.15 h Door concepts for self-driving vehicle car bodies**  
*Lars Reimer, Volkswagen, DE*
- 9.45 h Reliable unlocking without key cylinder**  
*Dr. Marco Eggert, Thorsten Bendel, Kiekert AG, DE*



### **OEM hardware presentations: Doors and Closures Systems Award**

*Technical presentations of the OEM developers, followed by individual discussions directly at the hardware in question*

- 10.15 h The door system of the new Jaguar I-Pace** 🏆  
*Clark Jones, Simon Heyes, Jaguar Land Rover Ltd., GB*
- 11.15 h The door system of the new Peugeot 508** 🏆  
*Elisabeth Bagouin, Christian Roy, Groupe PSA, FR*
- 12.15 h 🍴🚗 Lunch break and New Car Show**  
*Opportunity to inspect the full vehicles exhibited*
- 13.30 h The door system of the new i8 Roadster** 🏆  
*Florian Soldner, Markus Vallerius, BMW Group, DE*
- 14.30 h The door system of the new Alpine** 🏆  
*Thierry Ginestet, Hubert Ernault, Groupe Renault, FR*
- 15.30 h ☕ Coffee and contacts & Meet the Speakers**

### FOCUS: LIGHTWEIGHT DESIGN AND MATERIALS

- 16.00 h The Volvo aluminium door project**  
*Paul Jonason, Volvo Car Corporation, SE*

- 16.30 h Efficient concepts of steel lightweight design**  
*Erik Hilfrich, Dr. Volker Smukala, thyssenkrupp Steel Europe AG, DE*
- 17.00 h High performance sustainable composite solutions for automotive doors and closures**  
*Dr. Per Martensson, Bcomp Ltd., CH*
- 17.30 h Metal reinforcement coating with acoustic dampening abilities**  
*Dr. Thanikaivelan Veeraraghavan, Suzana Culum, Uniseal, Inc., US*
- 18.00 h 🐾 Get-Together & Meet the Speakers**
- 19.30 h 🐾 Networking Night**  
*Enjoy an evening with good food, drinks and music in a relaxed atmosphere and network with your international peers!*

## WEDNESDAY, 14 NOVEMBER 2018

- 8.30 h The last driver license holder...**  
*Dr. Mario Herger, Enterprise Garage Consultancy, US*


### OEM PRESENTATIONS


- 9.30 h The PSA flush handle**  
*Yves Teston, Groupe PSA, FR;  
N.N., U-Shin Ltd., JP*
- 10.00 h The integrated organosheet power window concept of the new Ford Focus**  
*René Berns, Ford-Werke GmbH, DE*
- 10.30 h Inspection of car body parts and individual discussions with the speakers**

### **11.00 h** **TECHNOLOGY CLINIC: CONTROL SWITCHES OF WINDOW REGULATOR AND EXTERIOR WINDOW MIRROR**

*In an exhibition of current series vehicles, all conference participants are invited to compare and evaluate the control switches of window regulator and exterior window mirror regarding their ergonomics, intuitive handling as well as haptics and perceived quality. The full vehicles on display will also be available for further inspection.*

IMPULSE

12.00 h  **Lunch break and New Car Show**  
*Opportunity to inspect the full vehicles exhibited*

13.00 h  **DOORS & CLOSURES  
SYSTEM AWARD 2018**  
*Disclosure of the results of the Award competition  
and bestowal of the Award*

#### **FOCUS: MANUFACTURING 4.0**

13.15 h **Individual functionalisation of automotive parts  
by digital manufacturing processes**  
*André Bucht, Fraunhofer IWU, DE*

13.45 h **Additively manufactured lightweight hood hinge**  
*Sebastian Flügel, EDAG Engineering GmbH, DE*

14.15 h **Structural adhesives and inserts – Design with CAE**  
*Michael Meier, Sika Automotive AG, CH*

14.45 h  **Coffee and contacts & Meet the Speakers**

#### **FOCUS: GLOBAL MARKETS**

15.15 h **Development trends and related solutions in doors  
and closures systems in the Chinese Market**  
*Guo Hengru, PATAC Ltd., CN; Zeng Liangcai, SAIC Motor  
Corporation Ltd., CN*

15.45 h **OEM OUTLOOK**  
*Representatives of the OEM Advisory Board on current  
trends and challenges in door and closure development and  
their expectations for the future.*

16.00 h **Farewell address and end of the conference**  
*Sabine Scharf, Automotive Circle, DE*

*Subject to change (Status as of 18 July 2018)*

**REGISTER  
NOW**



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AT [WWW.AUTOMOTIVE-CIRCLE.COM](http://WWW.AUTOMOTIVE-CIRCLE.COM)**

## **TECHNOLOGY BRIEFING**

### **MODERN LIGHTWEIGHT DESIGN DOOR CONCEPTS**

**IN  
ENGLISH**

**MONDAY, 12 NOVEMBER 2018, 17.00 h – 19.00 h**

The Technology Briefing offers a compact overview on important and recent aspects for innovative door concepts. Based on examples, current challenges will be analysed and discussed and in this way prepares you for the presentations of newest developments in the main conference.

#### **TOPICS OF THE TECHNOLOGY BRIEFING:**

- ❶ Which concepts best lend themselves for different material concepts and why?
- ❷ How do different concepts compare in terms of technological and economic performance?
- ❸ What are their pros and cons?
- ❹ Which concepts can be applied in which vehicle segments?

#### **DOCENT**



**Dr. Axel Förderreuther,  
Director Automotive Applications, Novelis**

Dr. Axel Förderreuther studied Physical Metallurgy in Stuttgart and Oxford/GB and received his Doctorate at the Max-Planck-Institute for Metal Research. After some years with Alcoa Automotive, he changed to the engineering service provider RLE, where he, as Lead Engineer Lightweight Design and New Materials, was responsible for both technical and economic aspects of OEM car body and lightweight design development projects. In May 2015, he joined the aluminium producer Novelis as Senior Manager, Global Automotive Technology Strategy.

Participation fee: 550,- plus 19 % German VAT  
450,- plus 19 % German VAT  
*(in combination with booking the conference)*

For this Briefing, knowledge of fundamentals pertaining to the conference topic is presumed. Please note that the Technology Briefing and the main conference are two independent events. Separate registration for both events is required.

## INFORMATION

### CONFERENCE FEES

#### Technology Briefing (12 November)

550,-€ or 450,-€ in combination with booking the conference

#### Conference participation (13 – 14 November)

Trust rate: 1.795,- € (for registrations received by 12 August 2018)

Early bird: 1.995,- € (for registrations received by 12 October 2018)

Standard: 2.095,- €

All prices plus 19 % German VAT.

### CONFERENCE VENUE

Hotel Dolce Bad Nauheim

Elvis-Presley-Platz 1, DE-61231 Bad Nauheim

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REGISTRATION AND TERMS AND CONDITIONS  
AT [WWW.AUTOMOTIVE-CIRCLE.COM](http://WWW.AUTOMOTIVE-CIRCLE.COM)



*Pictures: Vincentz Network*

## YOUR CONTACT

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As an exhibitor/sponsor, you can benefit on-site from the technical and personal exchange of ideas and experiences with specialists in the automotive industry.

Thus, you can

- ▶ increase clearly the visibility of your company
- ▶ expand your contacts with decision makers
- ▶ boost your brand awareness with the OEMs

The accompanying exhibition as well as the attractive sponsorship opportunities provide the ideal platform for your presence.

Decide for an exhibition package, including a full conference ticket, or place your advertisement on the conference booklets, USB cards or pens & pads.

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Talk to me, and we will develop jointly  
your individual performance as an  
exhibitor/sponsor at the conference.

### Imke Rotermund

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- ▶ **Ford-Werke**
- ▶ **Groupe PSA**
- ▶ **Groupe Renault**
- ▶ **Jaguar Land Rover**
- ▶ **PATAC / SAIC Motor Corporation**
- ▶ **Volkswagen**
- ▶ **Volvo Car Corporation**

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