

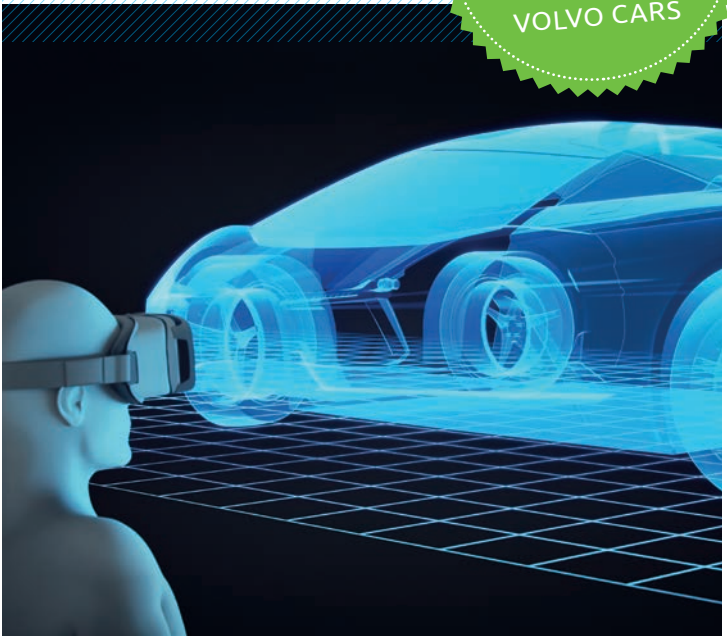
# VIRTUAL CAR BODY 2019

Simulation in car body related product and  
manufacturing engineering

**22 – 23 OCTOBER 2019**  
**BAD NAUHEIM, GERMANY**

**CAR BODY ENGINEERING /**  
**CAR BODY PAINTING**

OEM PROGRESS  
REPORTS FROM  
AUDI, HYUNDAI,  
VOLKSWAGEN AND  
VOLVO CARS



## VIRTUAL DEVELOPMENT IS BECOMING REAL

Using the possibilities of virtual development tools and systems as intensively as possible and as continuously as possible is one of the most important answers to the current challenges the automotive industry is facing.

Focusing on latest advances and ideas in simulation processes of production processes or properties of the product „painted car body“, the Automotive Circle conference VirtualCarBody again discusses these answers, bringing together its international network of engineering experts in Bad Nauheim, Germany, in October.

Reports on the status and progress of virtual car body development by international OEMs, together with the presentation and hands-on demonstration of important innovations by renowned software developers, system suppliers and research institutions will form the conference program, including discussions particularly focusing on the challenges of efficient simulation data management.

Meet the experts, have your say in these discussions, we look forward to your participation!

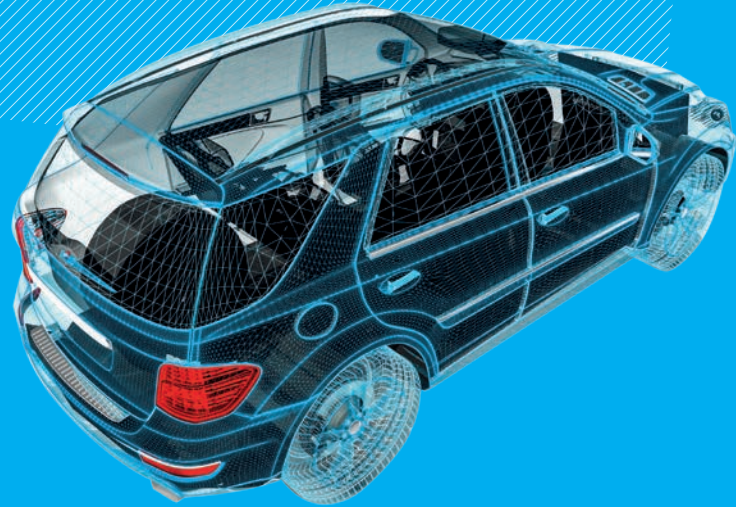


**Dr. Dirk Meine**  
Presidium  
Automotive Circle, DE



## THE CONFERENCE ADDRESSES

Automotive engineers in (pre-) development, planning and production with a focus on product- or process-oriented CAE, within the development chain “painted car body” as well as their relevant suppliers and engineering service providers.



## INTERNATIONAL OEM ADVISORY BOARD



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Volvo Car  
Corporation, SE



## YOUR PLUS



### LIVE POLLS ON SITE

Ask your specific questions concerning car body related CAE issues and benefit from the answers of the conference's expert audience.



### WORKSHOPS

Exchange ideas with other experts at eye level and get solutions for your daily challenges!



### MEET THE SPEAKERS

Meet the speakers for further intensive discussions and your individual questions.

# PROGRAMME

## TUESDAY, 22 OCTOBER 2019

### 9.00 h Welcome and conference introduction

*Dr. Dirk Meine, Automotive Circle, DE*

### OEM PROGRESS REPORTS:

#### THE VIRTUAL PROCESS CHAIN I

### 9.15 h The use of process chain simulation during the development of tools for the car body assemblies at AUDI AG

*Volker Huthmacher, Audi AG, DE*

### 9.45 h Virtual identification of significant parameters regarding the quality of assemblies

*Victor Schmadalla, Audi AG, DE*

### 10.15 h CAE driven development as a strategic tool

*Dr. Harald Hasselblad, Volvo Car Corporation, SE*

### 10.45 h ☕ Coffee and contacts / 👤 Meet the speakers

### VIRTUAL CAR BODY CONCEPTS

### 11.15 h A generic, early concept design platform with a lightweight door application

*Vicky Iliopoulou, Flanders Make, BE*

### 11.45 h Rapid interactive structural analysis

*Dr. Daniel Weber, Fraunhofer Institute for Computer Graphics Research (IGD), DE*

### 12.15 h 🗣️ Live polls in the conference auditorium

### 12.30 h 🍴 Lunch break / 👤 Meet the Speakers

### OEM PROGRESS REPORTS:

#### THE VIRTUAL PROCESS CHAIN II

### 13.45 h CAE in car body manufacturing at Hyundai

*Chulhong Rhie, Hyundai Motor Company, KR*

### 14.15 h Use and Potential of Simulation Data Management Systems

*Jens Barske, Volkswagen AG, DE*

### 14.45 h ☕ Coffee and contacts / 👤 Meet the Speakers

## 15.15 h PARALLEL WORKSHOPS

### ⚙️ Workshop 1

*More Standards?*

*How can the virtual information exchange harmonised globally?*

### ⚙️ Workshop 2

*Virtual Leadership?*

*How far can and should simulation tools determine product and process decisions?*

### ⚙️ Workshop 3

*Hunters or gatherers?*

*How can simulation data management be realised in an effective and efficient manner?*

## 16.45 h Reports from the workshops

## 17.30 h 👤 Get together

## 18.30 h 👤 Networking Night

## WEDNESDAY, 23 OCTOBER 2019

### SIMULATION TOOLS I

### 8.30 h Virtual manufacturing of premium quality die castings for future light weight automotive body structures

*David Lorenz, ESI GmbH, DE; Federico Casarotto, Ecotre Valente srl, IT*

### 9.00 h Increase the effectiveness of the data transferred from engineering to tool tryout

*Gianfranco Ruggiero, AutoForm Engineering Italy S.r.l., IT*

### 9.30 h Digital assembly and joining solution – from CAD-data to scanned parts

*Dr. Hendrik Schafstall, Simufact Engineering GmbH, DE*

### 10.00 h ☕ Coffee and contacts / 👤 Meet the speakers

### SIMULATION TOOLS II

### 10.30 h Development of a novel coupled LBM-SPH method to simulate multiphase spray waxing

*Dr. Martin Schiffko, ESS Engineering Software Steyr GmbH, AT*

### 11.00 h Simulation of the Application of Cavity Wax – Focus on Floodwax

*Dr. Stefan Hildenbrand, Pfinder KG, DE*

## CONTINUITY OF THE VIRTUAL DEVELOPMENT

**11.30 h** Virtual manufacturing and quantitative surface quality assessment of outer panels, doors and closures

David Lorenz, ESI GmbH, DE

**12.00 h**  Live polls in the conference auditorium

## **12.15 h** CONCLUDING PANEL DISCUSSION

*OEM experts on specific questions regarding the further development of virtual product and process development in car body engineering: What has been achieved, what obstacles need to be overcome?*

**12.30 h** Farewell address

**12.45 h**  Lunch break /  Meet the Speakers

**End of the conference**



*Subject to change (status as of 14 October 2019)*

**PROGRAMME UPDATES AND REGISTRATION AT  
[WWW.AUTOMOTIVE-CIRCLE.COM](http://WWW.AUTOMOTIVE-CIRCLE.COM)**

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## EXHIBITION AND SPONSORING COMMUNICATION FOR YOUR SUCCESS

**GET IN FACE-TO-FACE CONTACT WITH THE CONFERENCE DELEGATES ON-SITE! DURING THE EXHIBITION, YOU CAN ENHANCE YOUR COMPANY'S PRODUCTS AND PERFORMANCES.**

As an exhibitor/sponsor on site, you benefit from the professional and personal exchange of ideas and experience with international partners in the industry.

### Your exhibition presence will include:

- Full conference ticket for the person responsible for your booth including all conference documents, list of participants, luncheons and drinks as well as participation at all evening events
- Exhibition booth space (approx. 3.0m wide x 2.5m deep) including table, two chairs and main electric connection (no shell system, own display/roll-up required)
- Listing + logo at the exhibitors' list online including link to your website
- Two days of networking with the delegates

*Your investment: 3.295,- € (subject to VAT)*

### CONTACT US:

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**IDEAL to:**

- strengthen your brand awareness
- develop future contacts with decision makers

# INFORMATIONS

## CONFERENCE FEES

Early bird: 1.895,- €\* (for registrations received by 30 September 2019)

Standard: 1.995,- €\*

\*All prices plus 19 % German VAT

## CONFERENCE VENUE

Hotel Dolce Bad Nauheim

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

T +49 6032 303-0, F +49 6032 303-529

info@dolcebadnauheim.com

www.dolcebadnauheim.com

## ACCOMMODATION

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.

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



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## YOUR CONTACT

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