



**AUTOMOTIVE CIRCLE**  
CONFERENCE

# FORMING IN CAR BODY ENGINEERING 2018

25 – 26 SEPTEMBER 2018  
BAD NAUHEIM, GERMANY

CAR BODY ENGINEERING

**PLUS!**  
**TUTORIAL**

„Sheet Metal Forming“  
24 September 2018



## THE FUTURE OF CAR BODY PART PRODUCTION

New developments for more efficient processes and innovative technologies in industrial car body part production again govern the discussions held at this year's Automotive Circle conference **Forming in Car Body Engineering**, gathering its international network of automotive engineering experts in **Bad Nauheim**, Germany, on **25 and 26 September**.

From efficient tooling to optimised press and forming technology to smart production data management to CAE tools covering all development and process steps to additive manufacturing technologies and their possibilities, the conference presents latest achievements in all relevant development and process steps and goes on to discuss the impact of current design and technology trends on car body part engineering and production in a rapidly changing automobile industry.



Be part of this event, have your say in these discussions, we are looking forward to welcoming you in Bad Nauheim!

A handwritten signature in black ink that reads "Dirk Meine". The signature is written in a cursive, flowing style.

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



## **THE CONFERENCE ADDRESSES**

International automotive OEM engineers responsible for the pre-development, development, planning and quality control of car body part production processes, in press plant, tool shop or foundry, as well as their system suppliers and engineering service providers involved in relevant development projects.



## MEET THE SPEAKERS

During each break in the conference programme, the speakers of the immediately preceding session will be available for further individual questions and discussions with the audience.

## LIVE POLLS ON SITE

Ask your specific questions concerning car body part production and benefit from the answers of the conference's expert audience!

# INTERNATIONAL OEM ADVISORY BOARD



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**Volkswagen AG, DE**

**MEET THE  
LEADING  
OEM NETWORK**

# PROGRAMME

**TUESDAY, 25 SEPTEMBER 2018**

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

*Dr. Dirk Meine, Automotive Circle, DE*

## PRESS TECHNOLOGY

**9.00 h**      **Efficiency and flexibility in the smart press shop of the future**

*Frank Viola, Bernhard Köhler, Schuler Pressen GmbH, DE*

**9.30 h**      **Energy efficiency in drawing processes**

*Claus Dratz, Fagor Arrasate Deutschland GmbH, DE*

**10.00 h**     **Press hardening using a “Thermo Printer” for tailored properties**

*Harald Lehmann, Schwartz GmbH, DE*

**10.30 h**     **Enhancements in forming equipment technology: Servo Hydraulic Press and individualized tailored properties through cycle time neutral press hardening production solution**

*Dr. Christian Koroschetz, Michael Karlsson, AP&T AB, SE*

**11.00 h**     ☕ **Coffee and contacts | Meet the Speakers**

**11.30 h**     **Advanced technology: Rolling beam furnaces for press hardening**

*Adriana Torres Naranjo, Angel Sanz, GHI Hornos Industriales S.L., ES*

## TOOLING AND TRYOUT

**12.00 h**     **How to reduce the tryout time in the production plant for new dies?**

*Guillaume Blancard, Renault S.A.S., FR*

**12.30 h**     **Extending working life of tools by hybrid AM milling process – OpenHybrid**

*Daniele Bassan, C.R.F. S.C.p.A, IT*

**13.00 h**     🗨️ **Live Polls in the Auditorium**

**13.15 h**     🍴 **Lunch Break | Meet the Speakers**

**14.30 h**     **Connection of the virtual and the physical tool compensation for the production of dimensionally accurate body parts**

*Prof. Dr. Arndt Birkert, Inigence GmbH, DE*

**15.00 h**     **Computational Solid Dynamics (CSD) for optimised tool technologies**

*Karl Felbauer, ESS Engineering Software Steyr GmbH, AT*

**15.30 h Use of laser drilled micro-holes in a forming tool for improved deep drawing of steel**

*Daniel Förster, University of Stuttgart, Institut für Strahlwerkzeuge (IFSW), DE*

**16.00 h ☕ Coffee and contacts | Meet the Speakers**

**FORMING TECHNOLOGIES**

**16.30 h New forming technologies for aluminium extrusions in the new Audi A8**

*Matthias Gotthelf, Esref Ciklakersli, Audi AG, DE*

**17.00 h New joining method for hollow member: Rubber Bulge Joining**

*Yasuhiro Maeda, Dr. Toru Hashimura, Kobe Steel, Ltd., JP*

**17.30 h An efficient and robust new cold forming process for high-strength steels**

*Martin Kibben, ThyssenKrupp Steel Europe AG, DE*

**18.00 h 🍷 Get Together | Meet the Speakers**

**19.00 h 🍷 Networking Night**

**WEDNESDAY, 26 SEPTEMBER 2018**

**THE DESIGN CHALLENGE**

**9.00 h Honda's challenge: Extremely stylish car bodies with an extremely speedy development**

*Hideki Taoka, Honda Motor Co., Ltd., JP*

**9.30 h PANEL DISCUSSION: Design and engineering demands on car body part production for the mobility of the future**

**10.00 h ☕ Coffee and contacts | Meet the Speakers**

**PROCESS CONTROL AND SMART FACTORY APPROACHES**

**10.30 h Fineblanking 4.0 – challenges and opportunities**

*Philipp Niemietz, Laboratory for Machine Tools and Production Engineering (WZL) of RWTH Aachen University, DE*

**11.00 h Improved process monitoring of hot stamping production lines by smart data acquisition**

*Dipl.-Ing. Jens Aspacher, Schuler Pressen GmbH, DE*

**11.30 h** **Optical 3D measuring technology in the press shop combines process control with quality control**

*Dr. Carsten Reich, GOM GmbH, DE*

**12.00 h**  **Live Polls in the Auditorium**

**12.15 h**  **Lunch Break | Meet the Speakers**

### SIMULATION, CAE

**13.30 h** **Bridging the gap between tryout- and mass production based on sensitivity analyses in sheet metal forming simulations**

*Dr. Sanaz Berahmani, TriboForm Engineering BV, NL*

**14.00 h** **Friction and lubrication in sheet metal forming simulations: Application to the Renault Talisman trunk lid inner part**

*Julie Lacues, Groupe Renault, FR; Dr. Ir. Jan Harmen Wiebenga, TriboForm Engineering BV, NL*

**14.30 h** **Transient friction models – the key to overcome the last obstacle to total virtual process robustness prediction**

*David Lorenz, ESI Engineering System International GmbH, DE; Manfredi Biasutti, ESI Group, IT*

**15.00 h** **OEM CONCLUSIONS:**

*OEM experts on their expectations regarding the industry's upcoming challenges in the series production of car body parts.*

**15.15 h** **Farewell address and end of the conference**

*Subject to change (status as of 22 August 2018)*



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



# TUTORIAL

## SHEET METAL FORMING

24 SEPTEMBER 2018, 10.00 H – 18.00 H

IN  
ENGLISH



*Dr. Michael Rupp, Opel Automobile GmbH/  
Technische Hochschule Mittelhessen, DE*

Before the start of the main conference, the concise one-day tutorial on Sheet Metal Forming offers newcomers to the field the opportunity to learn about or refresh the relevant technological fundamentals of sheet metal forming processes in the automotive industry.

### THE TUTORIAL ADDRESSES:

- ▶ Metallurgic effects in forming operations, formability of different metal materials
- ▶ Requirements and challenges in the production of panel-based car body parts
- ▶ The car body part development process, from part design via method and process planning to tool construction and production, tryout processes and series production
- ▶ Modern press plant and press technology
- ▶ Forming simulation and process optimisation
- ▶ Hot-forming processes

Specific emphasis will be placed on topics of particular interest to the tutorial participants.

**Please note that the tutorial and the main conference are independent events. Explicit registration for the tutorial is required.**

# INFORMATION

## CONFERENCE FEES

### Conference

Early-bird: 1.825,- €\*  
(available until 24 August 2018)

Standard: 1.925,- €\*

### Tutorial:

Tutorial: 850,- €\*

\* plus German 19% VAT.

## 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

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*Pictures: ©natalia hora/fotolia.com, Vincentz Network*

## YOUR CONTACT

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# EXHIBITION AND SPONSORING NETWORKING FOR YOUR SUCCESS

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.

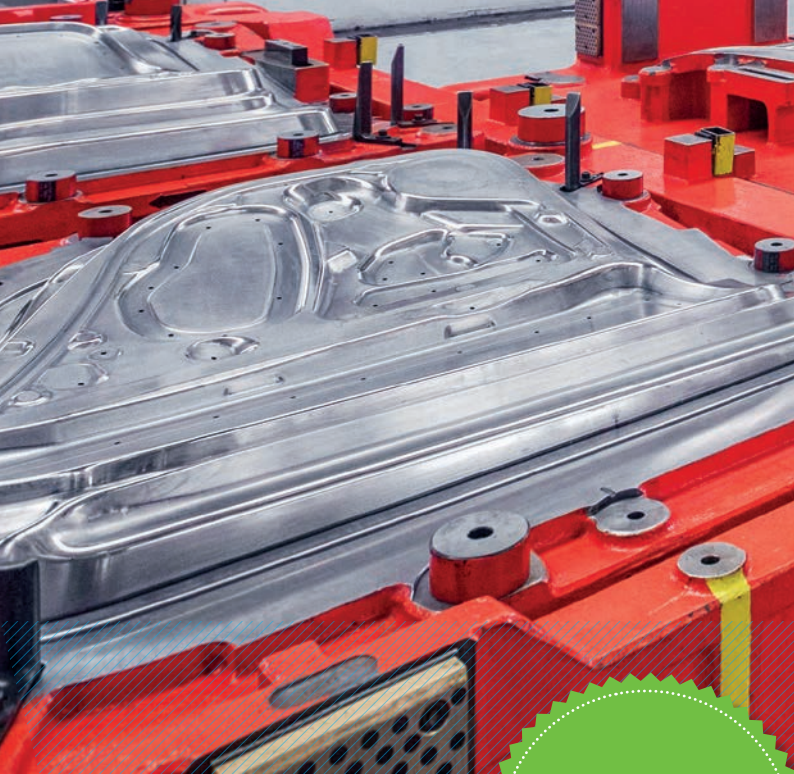
Decide for an exhibition package, including a full conference ticket, or place your advertisement on the lanyards, conference booklets, USB cards or pens & pads.

You have a specific idea yourself?  
Talk to me, and we will develop jointly  
your individual performance as an  
exhibitor/sponsor at the conference.

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