



MATERIALS IN CAR BODY ENGINEERING 2022

JULY 5-6, 2022 | BAD NAUHEIM, GERMANY

TUESDAY, JULY 5, 2022

- 8.45 am** **Welcome and conference introduction**
Dr. Dirk Meine, Automotive Circle, DE
- 9.00 am** **KEYNOTE**
Green(er) automotive metals: Metallurgic and industrial challenges
Prof. Dierck Raabe, Max-Planck-Institut für Eisenforschung, DE

TOWARDS ZERO





- 9.45 am** **Reducing CO2 emissions in mining and steelmaking for automotive car components**
Dr. Manuel Otto, SSAB Swedish Steel GmbH, DE
- 10.15 am** **Benefits and challenges of increasing recycling content to reduce CO2 footprint of aluminium for automotive body sheets**
Dr. Andreas Afseth, Constellium, FR
- 10.45 am**  **Meet the Speakers**
 **Coffee and contacts**
- 11.15 am** **Low CO2eq aluminium solutions for automotive applications**
Dr. Milan Felberbaum, Novelis Switzerland SA, CH
- 11.45 am** **Low carbon footprint and use of secondary aluminium for giga-casting structural components**
Dr. Stuart Wiesner, Aluminium Rheinfelden Alloys GmbH, DE

LIVE POLLS IN THE AUDITORIUM

- 1.00 pm**  **Meet the Speakers**
 **Lunch break**

STEEL DEVELOPMENTS

- 2.00 pm** **Back to the roots: Production concepts for advanced automotive HSLA steels**
Prof. Dr. Hardy Mohrbacher, NiobelCon BV, BE
- 2.30 pm** **Predicting and assessing the greater design freedom with super formable DX58-GI**
Georgina Treherne, Tata Steel IJmuiden, NL
- 3.00 pm** **New modeling approach to predict edge cracking in Advanced High Strength Steels.**
Daniele De Caro, Centro Ricerche Fiat (crf), IT; David Frómeta, Eurecat, Centre Tecnològic de Catalunya, ES

- 3.30 pm**  **Meet the Speakers**
 **Coffee and contacts**
- 4.15 pm** **High and ultra-high strength steels tailored for electro mobility applications**
Andreas Breidenbach, thyssenkrupp Steel Europe AG, DE
- 4.45 pm** **Ultra-high strength stainless steels as holistic enabler for a sustainable, crash-resistance and aesthetical car body**
Markus Brucker, Outokumpu Nirosta GmbH, DE
- 5.15 pm** **Auto/Steel partnership stamping study with additively manufactured tool steel**
Paul Wolcott, General Motors Company, US
- 6.00 pm**  **Meet the Speakers**
 **Get together**
- 7.00 pm** **Networking Night**



YOUR CONTACT

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CONFERENCE VENUE

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WEDNESDAY, JULY 6, 2022

8.30 am The future of hot stamped parts at BMW

Dr. Markus Pfestorf, BMW Group, DE

9.00 am Multi Part Integration (MPI) new concept of PHS solutions

Kevin Lutten Schlager, ArcelorMittal, FR

9.30 am Smart production lines using hot die forming technology

Prof. Dr. Jürgen Hirsch, Dr. Peter Amborn, HoDforming GmbH, DE

10.00 am  **Meet the Speakers**

 **Coffee and contacts**

MULTI-MATERIAL CHALLENGES

10.30 am Multi-materials: The challenges of the drastic weight reduction in automobile materials by the Japanese national project

Tomoaki Hyodo, Sakae Fujita, Innovative Structural Materials Association, JP; Hidetoshi Fujii, Joining and Welding Reseach Institute, JP

11.00 am Integration of new aluminum alloys (sheet and cast) and "Gen3" steel enabled by new laser joining processes

Andreas Müllegger, Trumpf Laser- und Systemtechnik GmbH, DE

11.30 am New approaches to alleviate the bottle neck of metallographic-based quality control

Prof. Dr. Martina Zimmermann, Fraunhofer Institute for Material and Beam Technology (IWS), DE

12.00 pm LIVE POLLS IN THE AUDITORIUM

12.15 pm  **Meet the Speakers**

 **Lunch break**

COMPOSITE INNOVATIONS

1.30 pm Unified bonding and forming process for steel/composite hybrid part production

Alexander Dronov, Harald Schwinghammer, voestalpine Automotive Components, DE

2.00 pm Development of modular CFRP light weight components and production strategies

Nicolai Kempf, Felix Hohmann, FFT Produktionssysteme GmbH & Co. KG, DE

2.30 pm Advanced automotive lightweight components by fiber-metal-laminates

Marcel Triebus, Paderborn University, Chair of Automotive Lightweight Design, DE

CONCLUDING PANEL DISCUSSION

3.00 pm OEM experts on the current challenges for modern, sustainable, series car body material concepts.

3.30 pm Concluding remarks and farewell address, end of the conference

(Subject to change)

Registration and Terms & Conditions at
WWW.AUTOMOTIVE-CIRCLE.COM

CONFERENCE FEE

EARLY-BIRD*: 1.895 €

STANDARD: 1.995 €

* valid until June 5, 2022

All prices plus 19% German VAT