

MATERIALS IN CAR BODY ENGINEERING 2023

MAY 9-10, 2023 | BAD NAUHEIM, GERMANY | ONLINE

TUESDAY, MAY 9, 2023

8.40 am Welcome and conference introduction

Dr. Dirk Meine, Automotive Circle, DE

ROUTES TO SUSTAINABILITY I

9.00 am Jaguar Land Rover journey to Net Zero

Anthony Riley, Jaguar Land Rover Ltd., UK

9.30 am Durability as key to reusable components

Dr. Stefan Caba, EDAG Engineering GmbH, DE

10.00 am Eco-design technical solutions for a sustainable mobility

Daniele De Caro, Stellantis NV, IT; Bernardo Barile, ArcelorMittal, FR

10.30 am Meet the Speakers

 Coffee and contacts

STEELS UPDATE

11.15 am 34MnB5 with thin zinc coating – no scaling during press hardening, corrosion protection and 2000 MPa strength level

Christoph Wagner, voestalpine Stahl GmbH, AT

11.45 am Coating free press hardened steel: Introduction and applications

Sarah Tedesco, Jianfeng Wang, General Motors Company, CN

12.15 pm Hot-stamping applications in Mercedes-Benz battery electric vehicles: materials, tailored tempering and patchwork blanks

Dr. Sebastian Heibel, Mercedes-Benz AG, DE

12.45 pm Meet the Speakers

 Lunch break

2.00 pm The limits of strength and performance in UHS automotive steels

Prof. Hardy Mohrbacher, Niobelcon b.v., BE

2.30 pm New generation of advanced high strength steels with balanced forming properties and increased crash performance for body-in-white structures

Patrick Kuhn, ThyssenKrupp Steel Europe AG, DE

3.00 pm Cost effective cold forming solutions with tailor rolled products

Torben Wilks, Mubea Tailor Rolled Blanks GmbH, DE

3.30 pm Meet the Speakers

 Coffee and contacts

4.15 pm IN FOCUS: PLASTICS FOR THE BATTERY CASE

Better battery enclosures

Paul Gallen, Hankuk Composite UK Ltd, UK

Thermosets in EV battery production

Dr. Florentin Pottmeyer, Hennecke GmbH, DE

LEO – Lightweight with extreme opportunities

Nabil Al Kabir, svt Products GmbH; Jan Hindahl, Saertex GmbH & Co. KG; DE

Q+A Focus session



ROUTES TO SUSTAINABILITY II

5.00 pm Pathways into a resource-efficient production technology – Innovative approaches for manufacturing sustainable and high-performing car body components

Prof. Marion Merklein, Friedrich-Alexander-Universität Erlangen-Nürnberg, Department of Mechanical Engineering, Institute of Manufacturing Technology (LFT), DE

6.00 pm Meet the Speakers

 Get together

7.00 pm Networking Night



YOUR CONTACT

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CONFERENCE VENUE

Hotel DOLCE Bad Nauheim
Elvis-Presley-Platz 1
DE-61231 Bad Nauheim
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WEDNESDAY, MAY 10, 2023

ALUMINIUM CASTINGS AND EXTRUSIONS

- 8.30 am** **Large in-house HPDC aluminium casting for next generation body in white design at Volvo Cars**
Michelle Khoo, Volvo Car Company, SE
- 9.00 am** **How the demand for sustainability is changing aluminium casting materials for structural components**
Dr. Stuart Wiesner, Aluminium Rheinfelden Alloys GmbH, DE
- 9.30 am** **Advanced roof rail structures for automotive applications via multi-material Shear Assisted Processing and Extrusion (ShAPE)**
Prof. Jorge F. dos Santos, Pacific Northwest National Laboratory, US

- 10.00 am**  **Meet the Speakers**
 **Coffee and contacts**

ALUMINIUM SHEET

- 10.45 am** **Sustainable aluminum for bodyshop and high-voltage batteries at BMW**
Dr. Marc Reinstettel, BMW Group, DE
- 11.15 am** **Opportunities for automotive aluminium end of life recycling to maximize circularity**
Olivier Rebuffet, Dr. Andreas Afseth, Constellium, US
- 11.45 am** **6xxx high formable aluminium for inner applications**
Bart Sprengers, Aluminium Duffel BV, BE
- 12.15 pm** **A roll formed multi-hollow profile for crash**
Dr. Axel Förderreuther, Milan Felberbaum, Novelis Deutschland GmbH, CH

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

ALUMINIUM HOT FORMING

- 2.00 pm** **New stamping technology for lightweight materials – Application of warm forming for high strength aluminium**
Jens Aspacher, Schuler Pressen GmbH, DE; Dr. Li-Liang Wang, Department of Mechanical Engineering, Imperial College London, UK
- 2.30 pm** **Hot stamping of high-strength 6XXX and 7XXX aluminum alloys**
Aitor Ormaetxea, Fagor Arrasate S. Coop., ES

- 3.00 pm** **Driving higher recycling rates with HFQ technology for aluminium sheet**
Dr. Richard Hunt, Impression Technologies Ltd, UK

CONCLUSION

- 3.30 pm** **OEM experts on the current challenges for modern, sustainable, series car body material concepts.**
- 3.45 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*: 1.995 €

STANDARD: 2.095 €

* valid until April 22, 2023

All prices plus 19% German VAT