

CAR BODY PARTS –

FROM DEVELOPMENT TO PRODUCTION

MODULE 1: CASTING, MOLDING, ADDITIVE TECHNOLOGIES

TUESDAY, SEPTEMBER 27, 2022, 9.00 AM TO WEDNESDAY, SEPTEMBER 28, 2022, 3.45 PM | CEST

MODULE 2: PANEL FORMING, EXTRUSIONS

WEDNESDAY, SEPTEMBER 28, 2022, 8.30 AM TO THURSDAY, SEPTEMBER 29, 2022, 3.30 PM | CEST

TUESDAY, SEPTEMBER 27, 2022

MODULE 1:

CASTING, MOLDING, ADDITIVE TECHNOLOGIES

9.00 AM Welcome and introduction to Module 1

Dr. Dirk Meine, Automotive Circle, DE

COMPLEXITY AND SIZE: CASTING CAPABILITIES

9.15 AM Prototyping and pre-series production of aluminum structural castings for body-in-white and chassis applications

Kentaro Higaki, Kimura Foundry Co., Ltd., JP; Dr. Joachim Gundlach, Grunewald GmbH & Co. KG, DE

9.45 AM How to prototype megacastings

Jay Schofield, Keith Denholm, Grainger & Worrall Ltd, UK

10.15 AM Virtual product development challenged by large HPDC structural parts

Stephan Philipp, GF Casting Solutions AG, CH

10.45 AM Meet the Speakers / Coffee and contacts

11.30 AM tba (invited, not yet confirmed)

tba

12.00 PM Fields of action in production and product for the industrialization of megacasting of automotive car bodies

Falko Fiedler, Laboratory for Machine Tools and Production Engineering (WZL), RWTH Aachen University, DE

12.30 PM **PANEL DISCUSSION**

Megacasting: intelligent, sustainable lightweight design? – A dispute between experts

Prof. Thilo Röth, University of Applied Sciences Aachen, Laboratory for Automobile Technology, DE; N.N.

1.15 PM Meet the Speakers / Lunch break

PROCESSING CAST PARTS

2.30 PM Simulation of suitability for welding of aluminium high-pressure die casting parts

Dr. Norbert Hoffmann, Technische Universität Braunschweig, Institute for Welding and Joining (ifs), DE

3.00 PM New conceptions for joining and additive manufacturing of casting parts

Dr. Axel Jahn, Fraunhofer Institute for Material and Beam Technology IWS, DE

3.30 PM Meet the Speakers / Coffee and contacts

ADDITIVE MANUFACTURING OF COMPLEX PARTS

4.15 PM Hybrid manufacturing of functionally integrated car body parts via robotic screw extrusion additive manufacturing

Nicolas Unger, German Aerospace Center (DLR), Institute of Vehicle Concepts, DE

4.45 PM Additive manufacturing using innovative structural steels

Dr. Simon Hoeges, GKN Additive, DE

5.15 PM Generative design for hybrid additive manufacturing from CAD to CAD

Rolf Fischer, Intes GmbH Stuttgart, DE

5.45 PM Meet the Speakers / Get-Together

7.00 PM Networking Night Module 1

FIND MORE INFORMATION AT:
WWW.AUTOMOTIVE-CIRCLE.COM

Please note that the presentation times are in CEST (UTC + 2)



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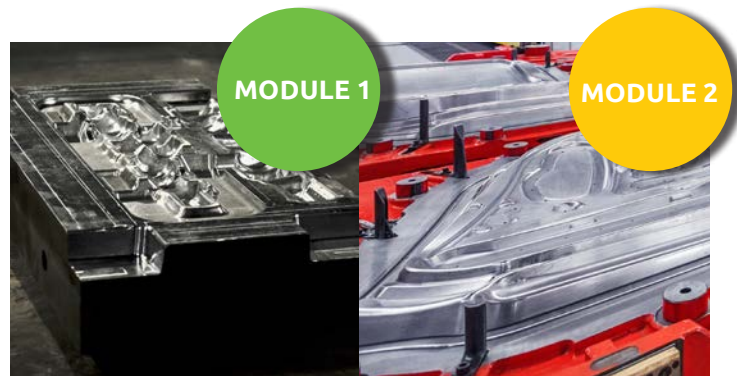
MODULE 1:

CASTING, MOLDING, ADDITIVE TECHNOLOGIES

MODULE 2:

PANEL FORMING, EXTRUSIONS

(Joint Sessions for both Modules)



8.30 AM Welcome and introduction to Module 2

Dr. Dirk Meine, Automotive Circle, DE

OEM PROJECTS AND DESIGN SOLUTIONS

8.45 AM A 360° overview on all parts in the car body of the new BMW iX

Klaus Sammer, Dr. Thomas Kopp, BMW Group, DE

9.30 AM Casting and panel forming developments at NIO

Gary Hughes, NIO Inc., CN

10.15 AM Meet the Speakers / Coffee and contacts

11.00 AM Development of sharp edge technology for attractive styling

Egawa Susumu, Honda Motor Co., JP

11.30 AM Implementation of super large AL clamshell hood sharp character using UP-CAM

Tae Wan Kim, Hyundai Motor Company, KR

ADDITIVE AND HYBRID MANUFACTURING TECHNOLOGIES

12.00 PM Additive tooling for car body parts: A cost-effective way to manufacture prototype parts

Bernd Löffler, Laboratory for Machine Tools and Production Engineering (WZL), RWTH Aachen University, DE

12.30 PM Additive manufacturing of car body components in high strength steels

*Dr. Martin Hillebrecht, Edag Engineering AG, DE;
Dr. Matthias Höfemann, Salzgitter Mannesmann Forschung GmbH, DE*

1.00 PM Meet the Speakers / Lunch break

2.15 PM Cost-effective high-performance metal additive manufacturing (MAM) for Tooling

Isaac Valls, Rovalma S.A., ES

PROCESS CONTROL

2.45 PM Detection of surface contaminations on large and complex parts – A robot-guided laser-scanner for fluorescence imaging

Dr. Alexander Blättermann, Fraunhofer Institute for Physical Measurement Techniques IPM, DE

3.15 PM Power additive for virtual layout

Dr. Christian Klimmek, Simuform Search Solutions GmbH, DE

3.45 PM Meet the Speakers / Coffee and contacts

(Module 1 ends / Module 2 continued)

PROCESSING HIGH-STRENGTH MATERIALS I

4.30 PM Optimized combination of materials and technologies for maximum part performance

Dr. Patrick Kuhn, Thyssenkrupp Steel Europe AG, DE

5.00 PM New concept of bringing simplification to car body parts - Multi Part Integration concept

Jesse Paegle, ArcelorMittal Tailored Blanks, FR

5.30 PM Large scale component production of hot-formed high-strength aluminium

Dr. Michael Machhammer, AP&T Sweden AB, SE; Marc Schweizer, Fischer Group SE & Co. KG, DE

6.00 PM Meet the Speakers / Get-Together

7.00 PM Networking Night Module 2

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MODULE 2:

PANEL FORMING, EXTRUSIONS

DIGITALISATION IN THE PRESS SHOP

8.30 AM Smart press shop – increased efficiency and transparency through a comprehensive track & trace solution

Dr. Robert Vollmer, Schuler Pressen GmbH, DE

9.00 AM Sensorized gas springs for industry 4.0

Ignacio Garcia Acha, Azol Gas Group, ES

9.30 AM The creation of physical process twins to enable smart(er) production

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

10.00 AM Part tracking and model driven control in stamping at Volvo Cars: First steps of implementation of evoTrQ and future plans

tba, Volvo Car Corporation, SE

10.30 AM Meet the Speakers / Coffee and contacts

GEOMETRY CONTROL

11.15 AM The new compensation strategy for concave outer panels

Dr. Kadir Akcan, Ford Otosan, TR

11.45 AM Visualization of spring back generation factors of ultra-high-tensile-steels to clarify its mechanism

Junpei Tetsuka, Honda Motor Co., JP

12.15 PM Stamping simulation applications beyond process validation

Dr. Omar Ghouati, Ford-Werke GmbH, DE

12.45 PM Meet the Speakers / Lunch break

PROCESSING HIGH-STRENGTH MATERIALS II

2.00 PM Advanced rollformed components based on ultra-high strength steel for crash absorbing

Stephane Anquetil, Shape Corp., DE

2.30 PM Lightweight potential in car body using roll forming for ultra-high-strength alloys

Christoph Grölllich, Dr. Tilman Traub, Dreistern GmbH & Co. KG, DE



3.00 PM OEM conclusions

The conference's OEM Advisory Board experts on current challenges in car body part production.

3.15 PM Farewell address and end of the conference

Subject to change (Status as of August 5, 2022)



YOUR CONTACT

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**REGISTRATION & TERMS AND CONDITIONS AT:
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