



JUN 23 – 24

CAR BODY PARTS 2026

AGENDA

TUESDAY | JUNE 23

TIME IN CEST	KURSAAL	
8.00 AM	Welcome and congress introduction Dr. Dirk Meine, Junaid Sheikh, Automotive Circle, DE PLENARY TALKS : MULTI-MATERIAL STRATEGIES FOR FUTURE CAR BODIES	
8.30 AM	P1 BMW's Way in Structural Part Evolution: Integrating Aluminium, Hot Stamping and Next Gen High Strength Steels Dr. Stephan Schirdewahn, BMW AG, DE ; Dr. Markus Pfestorf, BMW AG, DE	
9.00 AM	P2 Current Trends in the Use of Magnesium – Material and Technology Hartmut Fitscher, Andreas Stihl AG & Co. KG, DE	
9.30 AM	P3 Structural Magnesium Thixomolding Based on Aluminum Giga Casting Platforms Christian Platzer, TPI – Thixotropic Piston Injection Technology GmbH, AT	
10.00 AM	Meet the Speakers Exhibition Coffee and contacts	
	KURSAAL	SPIEGELSAAL
	MEGA-CASTING & STRUCTURAL HPDC	STEEL PRODUCTION & SCRAP-BASED SOLUTIONS
10.30 AM	A1 Near-contour quenching for improving mechanical performance of complex structural high-pressure die-cast components Selina Freygang, Friedrich-Alexander-Universität Erlangen/Audi AG, DE	B1 Hybrid Steelmaking for Sustainable Automotive Steels: Balancing CO₂ Reduction, Scrap Utilization and Performance Dr. Andreas Pichler, Roland Froschauer, voestalpine Stahl GmbH, AT
11.00 AM	A2 Unlocking the potential of die-cast battery frames for next-generation BEVs Stefan Kneer, Stefan Gobs, Albert Handtmann Metallgusswerk GmbH & Co. KG, DE	B2 Application-related properties of steel produced by the future steel production route Yannis Werner, Salzgitter Mannesmann Forschung, DE
11.30 AM	A3 Industrializing ultra-large structural die castings: Fourth-generation HPDC cells for maximum productivity Stefan Fritsche, YIZUMI Holdings Co. Ltd., CN	B3 Development of scrap-based low-CO₂-steel for automotive applications Sunhwan Kwon, Hyundai Steel, KR
12.00 PM	A4 The strategic role of the mouldmaker in the product design of mega-casting components Antonio Stefanoni, Costamp Group S.p.a., IT	B4 On the influence of increased tramp element contents with respect to the forming properties of a CR3 and DP600 steel sheet Jonny Bernhardt, Mercedes-Benz AG, DE
12.30 PM	Meet the Speakers Exhibition Lunch break	
	HYDROGEN EMBRITTLEMENT & PHS	NOVEL CONCEPTS
2.00 PM	A5 Study on dew-point regulation in multi-layer furnaces for mitigating hydrogen embrittlement in aluminized 2000 MPa press-hardening steel Michael Machhammer, AP&T AB, SEE	B5 Enabling up to 90% material utilisation on applicable BiW components Rishabh Arora, DeepForm, GB
2.30 PM	A6 Counteracting hydrogen embrittlement in press hardening steels by microalloy particle trapping Prof. Hardy Mohrbacher, NiobelCon BV, BE; Bernardo Barile, CBMM Europe, BE	B6 Sustainability and new ultra-lightweight design options for car body parts Michael Probst, CAIQ GmbH, DE
3.00 PM	A7 Applicability of Improved 22MnB5-TB Hot Forming Steel to Automotive Safety Parts Oguzhan Erdal, Beycelik Gestamp, TR	B7 Steel Applications for Low-Volume Future Mobility: A PBV Body Structure Concept Hongwoo Lee, POSCO, KR
3.30 PM	Meet the Speakers Exhibition Coffee and contacts	
	KURSAAL PLENARY ASSEMBLY	
	PLENARY SESSION: DISRUPTIVE PERSPECTIVES	
4.15 PM	P4 Large Quantitative Models (LQMs) for Alloy Engineering: Linking Process, Structure, and Performance for Decision-Ready Design Ang Xiao, SandboxAQ, US	
4.45 PM	P5 Sustainable Casting Alloys at Audi AG Dr. Marius Kohlhepp, Audi AG, DE	
5.15 PM	P6 Hot stamping: Dead or alive? Ersel Ozden, Toyotetsu, TR	
6.10 PM	Meet the Speakers Exhibition Get together	
7.00 PM	Networking Dinner	



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WEDNESDAY | JUNE 24

TIME IN CEST	KURSAAL	SPIEGELSAAL
	ADVANCED CASTING ALLOYS & COMPOSITE CASTING INTEGRATION	HYBRID & CIRCULAR COMPOSITE STRUCTURES
8.00 AM	A8 Steel body concept for future mobility to reduce carbon emissions tba, Alcoa	B8 Hybrid Structural Solutions for car body reinforcements: a lightweight, cost-efficient, and easy-to-manufacture solution Marwen Chatti, Henkel AG & Co. KG, DE
8.30 AM	A9 New approach for the composite casting of aluminum sheets and profiles in high-pressure die-casting Christoph Pille, Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM, DE	B9 System-Level Approaches to Scalable and Circular Lightweight Car Body Structures Martin Wachtel, HRC Europe, ES
9.00 AM	Meet the Speakers Exhibition Coffee and contacts	
	3RD GEN AHSS	ALUMINIUM INNOVATION
9.30 AM	A10 From validation to implementation: industrial validation of 3rd Gen AHSS for lightweight structures Pietro Licignano, Stellantis, IT; Valentina Pau, MA Srl, IT	B10 From Monolithic to Modular: A Multi-Profile Extrusion Design for Improved Crash and Cost Performance Kai Schwarz, Mehdi Ben-Tahar, Constellium, DE
10.00 AM	A11 Local formability and edge crack sensitivity of AHSS Thomas Schadow, Volkswagen AG, DE	B11 Lightweighting of complex automotive structures by advanced blow forming and novel crossover approach Leonardo Daniele Scintilla, FONTANA GROUP, IT
10.30 AM	A12 1470 MPa grade galvanized steel sheet for cold stamped body frame parts Nao Kawabe, JFE Steel Corporation, JP	B12 Car-to-Car Recycling: Reducing the Carbon Footprint of Aluminium Automotive Parts Dr. Florian Rödl, Dr. h.c.F. Porsche AG, DE; Dr. Ole Daaland, Hydro Aluminium AS, NO
11.00 AM	Meet the Speakers Exhibition Coffee and contacts	
	AI-POWERED QUALITY CONTROL	STAMPING PROCESS INNOVATIONS (I)
11.30 PM	A13 AI-Driven Design-to-Order: Real-Time Error Detection and Stock Control in Sheet Metal Production Emre Hür, Aycaan Doğan, Ford Otosan, TR	B13 Integration of 3D Printing into Press Hardening Steel Laser Welded Blanks: Technology for Enhanced Performance and Design Flexibility Christian Alvarez Robledo, ArcelorMittal, FR
12.00 PM	A14 AI-based Defect Detection – Moving from end of line to early in line testing Fabian Oberndorfer, Resoniks, NL	B14 A technological journey from 70% to 100% integrating external factors into the digital twin for sheet metal forming Mustafa Yenice, Coşkunöz Metal Form, TR
12.30 PM	A15 Efficient automated inline surface inspection and quality control in press and body shop Hubert Lechner, Newston Automated Solutions GmbH, DE	B15 Development of a multi-stage molding method to improve the exterior quality of door handles Seungho Oh, Hyundai Motor Group, KR
1.00 PM	Meet the Speakers Exhibition Lunch break	
	JOINING TECHNOLOGIES FOR MULTI-MATERIAL BODIES	STAMPING PROCESS INNOVATIONS (II)
2.00 PM	A16 Simulation of local suitability for bonding aluminium high-pressure die casting parts Sebastian Krischke, Braunschweig University of Technology – Institute for Joining and Welding Technology, DE	B16 Material robustness in BIW part production – How trimming of global and local formability in todays advanced high strength steels improves efficiency in cold stamping Patrick Kuhn, ThyssenKrupp Steel Europe AG, DE
2.30 PM	A17 Laser welding aluminum die-cast: Ensuring process stability and ROI in the automotive industry Robert Bernhard, Civan Lasers Europe GmbH, DE	B17 X-RAS coating application for PHS material Anthony An, Pressler Technologies Group Co., Ltd, CN
3.00 PM	A18 Quality, Cost and Sustainability of Friction Stir Welded Aluminium Car Body Parts and Structural Components Stephan Kallee, Stirweld GmbH, DE	B18 Stamping Modeling Automation by Using Rule-based AI Dr. Steven Sheng, GM, US
3.30 PM	KURSAAL PLENARY ASSEMBLY	
3.35 PM	P6 OEM conclusions Outlook Members of the Advisory Board on their congress summary and future outlook in Car Body Part development and production	
4.00 PM	Farewell address and end of the congress	



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