



# JUN 23 – 24

## CAR BODY PARTS 2026

### AGENDA

### TUESDAY | JUNE 23

TIME IN CEST	KURSAAL	
8.00 AM	<b>Welcome and congress introduction</b>   Dr. Dirk Meine, Junaid Sheikh, Automotive Circle, DE	
	<b>PLENARY TALKS : MULTI-MATERIAL STRATEGIES FOR FUTURE CAR BODIES</b>	
8.30 AM	<b>P1 BMW's Way in Structural Part Evolution: Integrating Aluminium, Hot Stamping and Next Gen High Strength Steels</b> Dr. Stephan Schirdewahn, BMW AG, DE ; Dr. Markus Pfestorf, BMW AG, DE	
9.00 AM	<b>P2 Current Trends in the Use of Magnesium – Material and Technology</b> Hartmut Fischer, Andreas Stihl AG & Co. KG, DE	
9.30 AM	<b>P3 Structural Magnesium Thixomolding Based on Aluminum Giga Casting Platforms</b> Christian Platzer, TPI – Thixotropic Piston Injection Technology GmbH, AT	
10.00 AM	Meet the Speakers   Exhibition   Coffee and contacts	
	KURSAAL	SPIEGELSAAL
	<b>MEGA-CASTING &amp; STRUCTURAL HPDC</b>	<b>STEEL PRODUCTION &amp; SCRAP-BASED SOLUTIONS</b>
10.45 AM	<b>A1 Near-contour quenching for improving mechanical performance of complex structural high-pressure die-cast components</b> Selina Freygang, Friedrich-Alexander-Universität Erlangen/Audi AG, DE	<b>B1 Hybrid Steelmaking for Sustainable Automotive Steels: Balancing CO<sub>2</sub> Reduction, Scrap Utilization and Performance</b> Dr. Andreas Pichler, Roland Froschauer, voestalpine Stahl GmbH, AT
11.15 AM	<b>A2 Unlocking the potential of die-cast battery frames for next-generation BEVs</b> Stefan Kneer, Stefan Gobs, Albert Handtmann Metallgusswerk GmbH & Co. KG, DE	<b>B2 Application-related properties of steel produced by the future steel production route</b> Dr.-Ing. Yannis Werner, Salzgitter Mannesmann Forschung, DE
11.45 AM	<b>A3 Industrializing ultra-large structural die castings: Fourth-generation HPDC cells for maximum productivity</b> Stefan Fritsche, YIZUMI Holdings Co. Ltd., CN	<b>B3 Development of scrap-based low-CO<sub>2</sub>-steel for automotive applications</b> Sunhwan Kwon, Hyundai Steel, KR
12.15 PM	<b>A4 The strategic role of the mouldmaker in the product design of mega-casting components</b> Antonio Stefanoni, Costamp Group S.p.a., IT; Klaus Hansen, ODIN consultant to Volvo Car, DK	<b>B4 On the influence of increased tramp element contents with respect to the forming properties of a CR3 and DP600 steel sheet</b> Jonny Bernhardt, Mercedes-Benz AG, DE
12.45 PM	Meet the Speakers   Exhibition   Lunch break	
	<b>HYDROGEN EMBRITTLEMENT &amp; PHS</b>	<b>NOVEL CONCEPTS</b>
2.00 PM	<b>A5 Study on dew-point regulation in multi-layer furnaces for mitigating hydrogen embrittlement in aluminized 2000 MPa press-hardening steel</b> Michael Machhammer, AP&T AB, SE	<b>B5 Enabling up to 90% material utilisation on applicable BiW components</b> Rishabh Arora, Paul Heard, DeepForm, GB
2.30 PM	<b>A6 Counteracting hydrogen embrittlement in press hardening steels by microalloy particle trapping</b> Prof. Hardy Mohrbacher, NiobelCon BV, BE; Bernardo Barile, CBMM Europe, BE	<b>B6 Sustainability and new ultra-lightweight design options for car body parts</b> Michael Probst, CAIQ GmbH, DE
3.00 PM	<b>A7 Applicability of Improved 22MnB5-TB Hot Forming Steel to Automotive Safety Parts</b> Oguzhan Erdal, Beycelik Gestamp, TR	<b>B7 Steel Applications for Low-Volume Future Mobility: A PBV Body Structure Concept</b> Hongwoo Lee, POSCO, KR
3.30 PM	Meet the Speakers   Exhibition   Coffee and contacts	
	<b>KURSAAL   PLENARY ASSEMBLY</b>	
	<b>PLENARY SESSION: DISRUPTIVE PERSPECTIVES</b>	
4.15 PM	<b>P4 Large Quantitative Models (LQMs) for Alloy Engineering: Linking Process, Structure, and Performance for Decision-Ready Design</b> Dr. Tanner Kirk, SandboxAQ, US	
4.45 PM	<b>P5 Sustainable Casting Alloys at Audi AG</b>   Dr. Marius Kohlhepp, Audi AG, DE	
5.15 PM	<b>P6 Hot stamping: Dead or alive?</b>   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
	<b>ADVANCED CASTING ALLOYS &amp; COMPOSITE CASTING INTEGRATION</b>	<b>HYBRID &amp; CIRCULAR COMPOSITE STRUCTURES</b>
8.00 AM	<b>A8 Beyond the Oven: Advanced Casting Alloys for the Era of Megacasting and Sustainable Car Body Integration</b> Raquel Noriega Concepción, Gregor Jurko, Alcoa, ES	<b>B8 Hybrid Structural Solutions for car body reinforcements: a lightweight, cost-efficient, and easy-to-manufacture solution</b> Marwen Chatti, Henkel AG & Co. KG, DE
8.30 AM	<b>A9 New approach for the composite casting of aluminum sheets and profiles in high-pressure die-casting</b> Christoph Pille, Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM, DE	<b>B9 System-Level Approaches to Scalable and Circular Lightweight Car Body Structures</b> Martin Wachtel, HRC Europe, ES
9.00 AM	Meet the Speakers   Exhibition   Coffee and contacts	
	<b>3RD GEN AHSS</b>	<b>ALUMINIUM INNOVATION</b>
9.30 AM	<b>A10 From validation to implementation: industrial validation of 3rd Gen AHSS for lightweight structures</b> Pietro Licignano, Stellantis, IT; Valentina Pau, MA Srl, IT	<b>B10 From Monolithic to Modular: A Multi-Profile Extrusion Design for Improved Crash and Cost Performance</b> Kai Schwarz, William Hammond, Mehdi Ben-Tahar, Constellium, DE
10.00 AM	<b>A11 Local formability and edge crack sensitivity of AHSS</b> Thomas Schadow, Volkswagen AG, DE	<b>B11 Lightweighting of complex automotive structures by advanced blow forming and novel crossover approach</b> Leonardo Daniele Scintilla, FONTANA GROUP, IT; Dr. Ramona Tosone, AMAG Rolling GmbH, AT
10.30 AM	<b>A12 1470 MPa grade galvanized steel sheet for cold stamped body frame parts</b> Nao Kawabe, JFE Steel Corporation, JP	<b>B12 Car-to-Car Recycling: Reducing the Carbon Footprint of Aluminium Automotive Parts</b> 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	
	<b>AI-POWERED QUALITY CONTROL</b>	<b>STAMPING PROCESS INNOVATIONS (I)</b>
11.30 AM	<b>A13 AI-Driven Design-to-Order: Real-Time Error Detection and Stock Control in Sheet Metal Production</b> Emre Hür, Aycan Doğan, Ford Otosan, TR	<b>B13 Integration of 3D Printing into Press Hardening Steel Laser Welded Blanks: Technology for Enhanced Performance and Design Flexibility</b> Christian Alvarez Robledo, Nachiket Gokhale, ArcelorMittal, FR
12.00 PM	<b>A14 AI-based Defect Detection – Moving from end of line to early in line testing</b> Fabian Oberndorfer, Resoniks, NL	<b>B14 A technological journey from 70% to 100% integrating external factors into the digital twin for sheet metal forming</b> Mustafa Yenice, Coşkunöz Metal Form, TR
12.30 PM	<b>A15 Efficient automated inline surface inspection and quality control in press and body shop</b> Hubert Lechner, Newston Automated Solutions GmbH, DE	<b>B15 Development of a multi-stage molding method to improve the exterior quality of door handles</b> Seungho Oh, Hyundai Motor Group, KR
1.00 PM	Meet the Speakers   Exhibition   Lunch break	
	<b>JOINING TECHNOLOGIES FOR MULTI-MATERIAL BODIES</b>	<b>STAMPING PROCESS INNOVATIONS (II)</b>
2.00 PM	<b>A16 Simulation of local suitability for bonding aluminium high-pressure die casting parts</b> Sebastian Krischke, Braunschweig University of Technology – Institute for Joining and Welding Technology, DE	<b>B16 Material robustness in BIW part production – How trimming of global and local formability in today's advanced high strength steels improves efficiency in cold stamping</b> Patrick Kuhn, ThyssenKrupp Steel Europe AG, DE
2.30 PM	<b>A17 Laser welding aluminum die-cast: Ensuring process stability and ROI in the automotive industry</b> Robert Bernhard, Civan Lasers Europe GmbH, DE	<b>B17 X-RAS coating application for PHS material</b> Anthony An, Pressler Technologies Group Co., Ltd, CN
3.00 PM	<b>A18 Quality, Cost and Sustainability of Friction Stir Welded Aluminium Car Body Parts and Structural Components</b> Stephan Kallee, Stirweld GmbH, DE	<b>B18 Stamping Modeling Automation by Using Rule-based AI</b> Dr. Steven Sheng, GM, US – online –
3.30 PM	<b>KURSAAL   PLENARY ASSEMBLY</b>	
3.35 PM	<b>P6 OEM conclusions   Outlook</b> Members of the Advisory Board on their congress summary and future outlook in Car Body Part development and production	
4.00 PM	<b>Farewell address and end of the congress</b>	



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