

# JUN 24 – 25

## CAR BODY PARTS: MATERIALS AND FORMING PROCESSES 2025

### TUESDAY | JUNE 24

| TIME IN CEST | KURSAAL                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                          |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.00 am      | Welcome and congress introduction   Dr. Dirk Meine, Automotive Circle, DE                                                                                                                                                                                              |                                                                                                                                                                                                                                                          |
|              | <b>PLENARY SESSION: PRODUCTION STRATEGIES</b>                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                          |
| 8.15 am      | <b>P1 Analysis of automotive innovation cycles and current trends in automotive production</b>   Prof. Alexander Schönmann, Technische Hochschule Ingolstadt / Technology Design and Application Automotive Manufacturing Foresight – Bavarian Foresight-Institute, DE |                                                                                                                                                                                                                                                          |
| 9.00 am      | <b>P2 MeGiCast: GigaCasting versus MultiMaterialMix front end structures – and the winner is?</b>   Prof. Thilo Röth, Aachen University of Applied Sciences, DE; Christian Kürten, FEV Vehicle GmbH, DE; Hagen Wegner, FEV Consulting GmbH, DE                         |                                                                                                                                                                                                                                                          |
| 9.45 am      | Meet the Speakers   Exhibition   Coffee and contacts                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                          |
|              | KURSAAL                                                                                                                                                                                                                                                                | SPIEGELSAAL                                                                                                                                                                                                                                              |
|              | <b>MEGACASTING: NEW MATERIALS AND PROCESS SOLUTIONS</b>                                                                                                                                                                                                                | <b>PANEL FORMING: EVOLUTION OF HOT STAMPING</b>                                                                                                                                                                                                          |
| 10.30 am     | <b>A1 The birth of a new aluminum alloy for structural parts</b><br>Loïc Vaissière, Renault SAS, FR                                                                                                                                                                    | <b>B1 Innovative sheet metal manufacturing – sustainable and future production technologies for automotive components</b><br>Jan Henning Risse, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Institute of Manufacturing Technology (LFT), DE |
| 11.00 am     | <b>A2 Mega/giga casting: a technological paradigm shift in die materials, component design and production technology</b><br>Thibault Le Bourdier, Rovalma, ES                                                                                                          | <b>B2 The future of hot stamped parts at BMW</b><br>Dr. Stephan Schirdewahn, BMW Group, DE                                                                                                                                                               |
| 11.30 pm     | <b>A3 Advanced die casting solutions for successful body in white applications</b><br>Giovanni Poltronieri, Yizumi / Diecasting Engineering S.r.l., IT                                                                                                                 | <b>B3 Vacuum hot stamping technology with electro-galvanizing &amp; high-temperature resistant lubricating coating</b><br>Tony An, Pressler Advanced Forming Technologies, CN                                                                            |
| 12.00 pm     | Meet the Speakers   Exhibition   Lunch break                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                          |
|              | <b>MEGACASTING: MASTERING PRODUCTION AND QUALITY</b>                                                                                                                                                                                                                   | <b>PANEL FORMING: ADVANCED TOOLING AND SURFACE SOLUTIONS</b>                                                                                                                                                                                             |
| 1.15 pm      | <b>A4 Giga Press: the story behind the growth of diecasting in automotive BIW, where the technology is today and where it's taking us tomorrow</b><br>John Stokes, IDRA Srl, IT                                                                                        | <b>B4 Application of 3D-printed metal insert tools for automotive stamping dies</b><br>Orhan Bibika, Bora Tandircioğlu, Ford Otomotiv Sanayi A.Ş., TR                                                                                                    |
| 1.45 pm      | <b>A5 GIGA casting production process and quality control</b><br>Jisong Zhao, Duoli Automotive Technology (Chuzhou) Co., Ltd., CN                                                                                                                                      | <b>B5 Increasing the service life of press hardening tools with the innovative EvolutionClad 58 coating solution using Laser Metal Deposition</b><br>Andreas Bartling, voestalpine Additive Manufacturing Center GmbH, DE                                |
| 2.15 pm      | <b>A6 The role of die enterprise in developing integrated car body parts</b><br>Zhenjin Liang, Guangzhou Die and Mould Manufacturing Co., Ltd., CN                                                                                                                     | <b>B6 (Hot) Stamping Out Body Shop Complexity &amp; Driving Down Costs</b><br>Paul Belanger, Gestamp, US                                                                                                                                                 |
| 2.45 pm      | Meet the Speakers   Exhibition   Coffee and contacts                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                          |
|              | <b>MEGACASTING: OPTIMIZING PHYSICAL AND VIRTUAL PROCESSES</b>                                                                                                                                                                                                          | <b>PANEL FORMING: INNOVATIVE FORMING AND LINE CONCEPTS</b>                                                                                                                                                                                               |
| 3.30 pm      | <b>A7 From straightening to savings: How intelligent systems optimize TCO of megacastings</b><br>Norbert Meinikmann, Laubinger + Rickmann GmbH & Co. KG, DE; Martin Hartlieb, Viami Inc., CA                                                                           | <b>B7 Technical study for Deepless and Bottom-up Tension fusion press forming process</b><br>Jeongho Kim, Hyundai Motor Company, KR                                                                                                                      |
| 4.00 pm      | <b>A8 Application of virtual casting tools in ultra-large aluminum casting development</b><br>Qigui Wang, Andy Wang, General Motors Company, US                                                                                                                        | <b>B8 Space-saving line concept for hot stamping of large car body components</b><br>Jens Aspacher, Schuler Pressen GmbH, DE                                                                                                                             |
| 4.30 pm      | <b>A9 Unlocking performance: overcoming challenges in large structural castings with advanced simulation solutions</b><br>Vanessa Glück Nardi, Kai Beckmann, MAGMA Gießerei-Technologie GmbH, DE                                                                       | <b>B9 Development of a machine learning-based verification and prediction model for addendum design in press forming</b><br>Keungin Lee, Hyundai Motor Company, KR                                                                                       |
| 5.00 pm      | KURSAAL   PLENARY ASSEMBLY                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                          |
|              | <b>PLENARY SESSION: OEM MATERIAL CONCEPTS</b>                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                          |
| 5.10 pm      | <b>P3 Assessment of Exposed Aluminum Surface Undulations Using Non-Destructive Quantitative Metrics</b>   Adam Hodges, General Motors Company; Tamer Girgis, Commonwealth Rolled Products; US                                                                          |                                                                                                                                                                                                                                                          |
| 5.40 pm      | <b>P4 Way to zero – sustainable car body concepts</b>   Dr. Chris Frohwein, Dr. Matthias Gaul, Volkswagen AG, DE                                                                                                                                                       |                                                                                                                                                                                                                                                          |
| 6.10 pm      | Meet the Speakers   Exhibition   Get together                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                          |
| 7.00 pm      | Networking Barbecue                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                          |

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| TIME IN CEST | KURSAAL                                                                                                                                                                                  |                                                                                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <b>PLENARY SESSION</b>                                                                                                                                                                   |                                                                                                                                                                                                        |
| 8.00 am      | <b>P5 Standardization of steel sheet for automotive applications in a global context</b><br>Klaus Unruh, Faurecia Autositze GmbH / Verband der Automobilindustrie, DE                    |                                                                                                                                                                                                        |
| 8.45 am      | Exhibition   Coffee and contacts                                                                                                                                                         |                                                                                                                                                                                                        |
|              | KURSAAL                                                                                                                                                                                  | SPIEGELSAAL                                                                                                                                                                                            |
|              | <b>DEVELOPMENTS IN THE ROLL FORMING PROCESS</b>                                                                                                                                          | <b>THE DIGITAL PATH TO STAMPING EXCELLENCE</b>                                                                                                                                                         |
| 9.15 am      | <b>A10 Steel body concept for future mobility to reduce carbon emissions</b><br>Dr. Jongcheol Park, POSCO, KR                                                                            | <b>B10 Automation of quality control in press lines at Renault Palencia plant</b><br>Juan Carlos Garcia, Eines Vision Systems, ES; Philippe Lautridou, Groupe Renault, FR                              |
| 9.45 am      | <b>A11 Recent developments in roll forming high strength aluminum</b><br>Dr. Axel Förderreuther, Novelis Deutschland GmbH, DE                                                            | <b>B11 Holistic Digital Solution for optimized Sheet Metal Part Production</b><br>Leopold Pöcksteiner, coilDNA GmbH, AT; Dr. Apostolos Papaioanu, iLARIZ GmbH, DE                                      |
| 10.15 am     | <b>A12 Resource-efficient part manufacture enabled by roll forming through digital tools</b><br>Dr. Cornelia Tepper, Christoph Grüllich, Dreistern GmbH & Co. KG, DE                     | <b>B12 Incorporating tool and press deformations in stamping simulations to enhance part quality assurance</b><br>Mark Vrolijk, Keysight Technologies, NL                                              |
| 10.45 am     | Meet the Speakers   Exhibition   Coffee and contacts                                                                                                                                     |                                                                                                                                                                                                        |
|              | <b>RETHINKING BODY STRUCTURES: NOVEL MATERIALS</b>                                                                                                                                       | <b>PROCESSING HIGH-STRENGTH STEELS</b>                                                                                                                                                                 |
| 11.15 am     | <b>A13 Woodflow in Motion – laying out car body structures with a natural and tunable material</b><br>Denis Schmitz, creengineering, DE; Jorge Christie, Strong by Form GmbH, DE         | <b>B13 High-ductility PHS1500, a game changer for energy absorption</b><br>Ludovic Dormegnny, ArcelorMittal Global R&D, DE                                                                             |
| 11.45 am     | <b>A14 Sustainable 6xxx aluminium with optimized surface properties &amp; durability for the automotive industry</b><br>Mustafa Melih Aksuoglu, Elizabeth Szala, Aluminium Duffel BV, BE | <b>B14 Streamlining indirect press hardening: a lean approach for galvanized steel without shot blasting</b><br>Ernst Dietmar Schachinger, Dr. Kerstin Haider, voestalpine Stahl GmbH, AT              |
| 12.15 pm     | <b>A15 Aluminium as game changer – sustainable lightweighting solutions for future vehicles</b><br>Dinesh Thirunavukkarasu, Norsk Hydro ASA / Hydro Aluminium, NO                        | <b>B15 Development of ultra-high-strength steel side sill with TWB applying real-time intelligent die control press forming technology</b><br>Dae Young Kim, Hyundai Steel, KR                         |
| 12.45 pm     | Meet the Speakers   Exhibition   Lunch break                                                                                                                                             |                                                                                                                                                                                                        |
|              | <b>DIGITALIZATION AND ADVANCED FORMING SOLUTIONS</b>                                                                                                                                     | <b>HIGH-STRENGTH STEEL DEVELOPMENTS</b>                                                                                                                                                                |
| 2.00 pm      | <b>A16 Breakthrough hot forming process to produce an ideal single piece battery tub</b><br>Dr. Axel Förderreuther, Novelis Deutschland GmbH, DE; Dr. Peter Amborn, HoD Forming GmbH, DE | <b>B16 Development and application of advanced high-strength steel for automotive safety</b><br>Sunhwan Kwon, Hyundai Steel, KR                                                                        |
| 2.30 pm      | <b>A17 The Digital Coil as a solution for increased fluctuations in secondary materials</b><br>Lucia Ortjohann, RWTH Aachen University, Manufacturing Technology Institute (MTI), DE     | <b>B17 Chain die forming of novel 1.9GPa tensile strength steel</b> <br>Sarah Tedesco, General Motors Company, US |
| 3.00 pm      | <b>A18 Data-driven modeling of forming effects for crash simulations</b><br>Ingolf Lepenies, Scale GmbH, DE                                                                              | <b>B18 Balancing global and local formability properties through Nb microalloying</b><br>Prof. Hardy Mohrbacher, Niobelcon BV, BE; Bernardo Barile, CBMM Europe BV, NL                                 |
| 3.30 pm      | KURSAAL   PLENARY ASSEMBLY                                                                                                                                                               |                                                                                                                                                                                                        |
| 3.35 pm      | <b>OEM conclusions</b><br>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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