

**AUTO
MOTIVE
CIRCLE**

AGENDA

APR 8 – 10

JOINING IN CAR BODY ENGINEERING 2025

MONDAY | APRIL 7

6.00 – 8.00 pm **Welcome Get together Module 1**

TUESDAY | APRIL 8

MODULE 1: ADHESIVE AND HYBRID BONDING

8.30 am **Welcome and conference introduction Module 1**
Dr. Dirk Meine, Automotive Circle, DE

ADHESIVES INNOVATIONS

8.45 am **Implementation of low bake body shop adhesives in serial production**

Urs Rheinegger, Sika Technology AG, CH; Geraldine Pereira, Stellantis N.V., FR

9.15 am **New trends for cold body shop applications: structural polyurethane adhesives and fast curing epoxybased adhesives with improved adhesion and application properties**

Dr. Stefan Schmatloch, DuPont Specialty Electronic Materials Switzerland GmbH, CH

9.45 am **Permanently plastic sealants for easy to repair battery housings**

Dr. Florian Menk, Drei Bond GmbH, DE

10.15 am **“Long-term stabilization” meets “Circularity” in automotive adhesion via re-bondable bio-based structural adhesive**

Nao Terasaki, National Institute of Advanced Industrial Science and Technology (AIST), JP

10.45 am **Meet the Speakers | Exhibition | Coffee and contacts**

PROCESS ADVANCEMENTS

11.30 am **Hybrid adhesive-bonded-bolted joints of aluminum components**

Philipp Richter, BMW AG, DE; Dr. Holger Fricke, Fraunhofer Institute for Manufacturing and Advanced Materials (IFAM), DE

12.00 pm **Structural casting: New demands on release agents and pre-treatment for adhesive bonding**

Darko Tomazic, Chem-Trend GmbH, DE; Dr. Jens Krömer, SurTec International GmbH, DE

12.30 pm **Laser cleaning for structural bonding in assembly**
Merlin Oliver Kapelar, Volkswagen AG, DE

1.00 pm **Meet the Speakers | Exhibition | Lunch break**

ADHESIVES APPLICATION DEVELOPMENT

2.15 pm **Development of a 2-component eccentric screw dosing system for highly abrasive gap fillers in the field of modern battery production**

Marco Moro, Nimak GmbH, DE

2.45 pm **A novel approach for applying 2K epoxies to improve outcomes and reduce cost**

Michael Bonner, Saint Clair Systems Inc., US

3.15 pm **3D-printed static mixers customised to the adhesive**
Adrien Schmidt, Innotech-Rot, DE; Julian Motzkau, Formenfrei 3D GmbH, DE

3.45 pm **Meet the Speakers | Exhibition | Coffee and contacts**

CURING AND MODELING

4.30 pm **An inductive curing approach for a seamless bonded roof concept**

Dr. Kristian Lippky, Volkswagen AG, DE; Konstantin Meglin, GH Induction Deutschland GmbH, DE

5.00 pm **Insights into structural adhesive corrosion resistance using machine learning**

Daisuke Umemoto, Sunstar Engineering Europe GmbH, DE

5.30 pm **Multiscale modeling and virtual material cards development for structural adhesives**

Dr. Marwen Chatti, Henkel AG & Co., DE

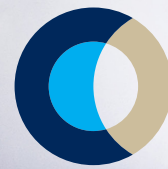
6.00 pm **Meet the Speakers | Exhibition | Get together**

7.00 pm **Networking Dinner Module 1**

* All times in CEST (UTC+2)
Conference program is subject to change
Status as of: March 28, 2025

JOINING IN CAR BODY ENGINEERING 2025

SEE YOU NEXT YEAR AT THE JOINING CONFERENCE IN APRIL 2026 IN BAD NAUHEIM AGAIN!



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WEDNESDAY | APRIL 9

MODULE 1: ADHESIVE AND HYBRID BONDING

MODULE 2: THERMAL AND MECHANICAL JOINING

– Joint sessions of both modules –

8.40 am **Welcome and congress introduction Module 2**
Dr. Dirk Meine, Automotive Circle, DE

NEW JOINING CONCEPTS

9.00 am **FE-simulation of cracking during joining of materials with low ductility**
Dr. Christian Burs, Audi AG, DE; Dr. Edgar Husser, Hexagon Manufacturing Intelligence GmbH, DE

9.30 am **New fasteners for hybrid joining of brittle castings**
Paul Briskham, Lewis Jepps, Atlas Copco IAS Ltd., UK

10.00 am **Joining for Circularity**
Stefan Caba, EDAG Engineering GmbH, DE

10.45 am **Meet the Speakers | Exhibition | Coffee and contacts**

NEW JOINING CONCEPTS (CONTINUED)

11.30 am **New bonding & sealing solutions for cold body assembly**
Dr. Nick Chudalla, Saral Baweja, Henkel AG & Co. KGaA, DE

12.00 pm **Multi Material Welding – Sustainable approaches to lightweight assemblies**
Dr. Martin Rheme, MultiMaterial Welding AG, CH

12.30 pm **Improving the dimensional accuracy of car body assemblies by repositioning individual parts in the joining fixtures based on an efficient linear approach**
Prof. Arndt Birkert, University of Applied Sciences Heilbronn, DE; Dr. Florian Marner, Inigence Software GmbH, DE

1.00 pm **Meet the Speakers | Exhibition | Lunch break**

WIDENING APPLICATION WINDOWS

2.15 pm **Expansion of the field of application with new flow drill screw optimizations**
Nathalie Kühn, Mercedes-Benz AG, DE; Nadine Schmetzer, Arnold Umformtechnik GmbH & Co. KG, DE

2.45 pm **Overcoming new challenges in flow-drill screwdriving: robot stability and material variability**
Mareike Dobers, WEBER Schraubautomaten GmbH, DE

3.15 pm **“OLD-Normal” vs. “NEW-Normal” vs. “INTELLIGENT-Normal” – or – How RSW-Joining-Technology is challenged**
Ulrich Matuschek, Matuschek Meßtechnik GmbH, DE

3.45 pm **Meet the Speakers | Exhibition | Coffee and contacts**

– End of Module –

– Module 2 continues –

JOINING HIGH-STRENGTH MATERIALS

4.30 pm **Further development of resistance element welding for high-strength joint connections in multi-material design**
Benjamin Hilpert, Mercedes-Benz AG, DE

5.00 pm **Improvement of clinching nut design for mechanical joining in high-strength and ultra-high-strength steel**
Markus Hirschmann, Richard Bergner Verbindungstechnik GmbH & Co. KG, DE

5.30 pm **Integration of the joining process of mechanically attached fasteners into the process chain of the production of press hardened steel**
Dr. Sebastian Meyer, PROFIL Verbindungstechnik GmbH & Co. KG, DE

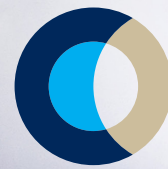
6:00 pm **Meet the Speakers | Exhibition | Get together**

7:00 pm **Networking Dinner Module 2**

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THURSDAY | APRIL 10

MODULE 2: THERMAL AND MECHANICAL JOINING

PROGRESS IN RESISTANCE SPOT WELDING

- 8.30 am** Innovative implementation of a robot-guided ultrasonic testing for quality control of weld spots in BIW manufacturing
Gerald Hofmann, BMW AG, DE; Sabine Schmidt, ABB AG, DE
- 9.00 am** New body-in-white development with focus on robust joinability in series production
Ingo Wonneberger, thyssenkrupp Steel Europe AG, DE
- 9.30 am** Developments on increasing the resistance spot welding applications for high strength aluminum alloys to reinforce automotive structures
Pedro Bamberg, RWTH Aachen University, Welding and Joining Institute (ISF), DE
- 10.00 am** Control cabinet-free system for spot welding in car body production: Integration of power unit and welding control in the robot welding gun
Kay Nagel, Benjamin Weyand, Nimak GmbH, DE
- 10.30 am** Meet the Speakers | Exhibition | Coffee and contacts

LASER AND FRICTION STIR WELDING INNOVATIONS

- 11.15 am** A surrogate model for laser welding and its application to a front bumper
Matthias Sester, AutoForm Development GmbH, CH
- 12.00 pm** Optical Coherence Tomography (OCT) in various body-in-white applications
Richard Steinbrecht, Lessmüller Lasertechnik GmbH, DE
- 12.30 pm** Welding gun design and robust, high-quality applications for flexible friction stir stitch welding in car body engineering
Robin Göbel, Materialprüfungsanstalt (MPA) Universität Stuttgart, DE

1.00 pm Meet the Speakers | Exhibition | Lunch break

NEW FASTENING SOLUTIONS

- 2.15 pm** New innovative blind fastening nut solution with full automation and significant cost reduction opportunity
Dr. Matthias Wissling, Stanley Industrial – Tucker GmbH, DE
- 2.45 pm** Innovative REW robotic solution for highest accessibility, productivity and flexibility with integrated quality management
Sean Farrell, Gaming Engineering, FR
- 3.15 pm** Investigation of Magnetic Pulse Welding in the Use Case "Crash Management Systems"
Markus Graß, Institut für Produktionstechnik und Logistik, Universität Kassel, DE; Jochen Wiedemann, Constellium Singen GmbH, DE

OEM CONCLUSIONS

- 3.45 pm** OEM Advisory Board experts on current challenges in car body joining technology
- 4.00 pm** Farewell address and end of the conference

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**FIND OUT MORE
ABOUT US**

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