

# JOINING IN CAR BODY ENGINEERING 2020

## MODULE 1

### ADHESIVE BONDING AND HYBRID BONDING

## MODULE 2

### THERMAL AND MECHANICAL JOINING

21 – 23 APRIL 2020, BAD NAUHEIM, GERMANY



**CALL FOR  
SPEAKERS**

## FLEXIBILITY AND EFFICIENCY

Battery or hybrid powered e-mobility with new material combinations, new joining technology options, new use cases and new performance requirements, the promise and complexity of smart production approaches, the trend towards virtualizing development, at the same time significant cost pressure and the desire for greater flexibility of established joining technologies and thus reduced complexity in the body shop – these are the topics that govern today's discussions in automotive body shop technologies. And these are the topics to be addressed by the annual three-day Automotive Circle conference "Joining in Car Body Engineering", once again assembling its leading network of expert

engineers in Bad Nauheim, Germany, to examine latest ideas and developments in this field. Current progress reports of international OEM, innovations of important system suppliers as well as practical ideas of well-known research institutes will be at the focus of attention.

**Here, your input is kindly requested: Present your industrially relevant development and research results to this expert audience and enrich our discussions on today's state-of-the-art and tomorrow's options in car body joining technology!**

### The conference will particularly focus on the following topics:

- New requirements for joining technology due to electromobility, especially in battery systems
- Reliable and cost-effective joining of new materials and new heterogeneous material combinations
- Joining of high-strength materials with special performance demands
- Joining of additively manufactured components
- Improvements in joining processes in terms of throughput, stability, robustness, reproducibility, maintenance requirements or requirements for upstream process steps
- Larger process windows and flexibility of joining processes - Reduction of process complexity in car body construction
- Innovative use of adhesive bonding, also in combination with other joining processes, in structural, supporting or hemming applications
- Progress in adhesives development
- Tailored and efficient adhesives application
- Performance of new, non-melting welding processes
- Reduction of heat input during joining and resulting distortions; avoidance of material damage
- Energy-efficiency in high-volume joining applications
- Joining of one-sided or difficult-to-access joints
- Simulation of thermal, mechanical, adhesive and hybrid joining processes and its integration into the virtual development environment
- Effective quality and process control techniques
- Smart Production approaches in the body shop; efficient data management



Following its proven scheme, the three conference days feature two overlapping modules:



## ADHESIVE BONDING AND HYBRID BONDING

21 – 22 APRIL 2020

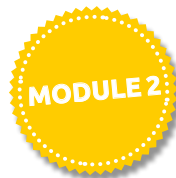
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## THERMAL AND MECHANICAL JOINING

22 – 23 APRIL 2020

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## CALL FOR SPEAKERS

Please submit your suggested conference contribution no later than **18 October 2019** via our [online submission form](#) or via e-Mail to one of the programme coordinators responsible for the corresponding module.

In your submission, please provide the title of your presentation as well as the name and contact details of the speaker.

**IMPORTANT:** Please also provide a concise English-language abstract, describing the contents of your presentation and why your results matter for the improvement of joining processes in industrial car body production.

The programme coordinators will be happy to help you with any questions regarding your submission.

Based on your abstract, the international OEM Advisory Board to the conference will be evaluating all submitted contributions. Positive evaluation will rely mainly on

- ➊ newness of the results,
- ➋ their industrial relevance
- ➌ the engineering-oriented, non-commercial style of the suggested presentation. Please do avoid the impression of a "sales pitch", which will be appreciated neither by the Advisory Board nor by the conference audience.

### Further dates:

Notification of acceptance  
**Mid-November 2019**

Publication of the conference programme  
**Beginning of January 2020**

Submission of the presentation files  
**23 March 2020**

For each accepted contribution to the conference, complimentary participation at the corresponding conference module is granted to one speaker per presenting company/institution.

