

CALL FOR SPEAKERS

LASERS IN THE FUTURE AUTOMOBILE INDUSTRY

What's new in terms of laser application in industrial automobile production? Let us know of your developments and ideas: On 11 and 12 February 2020, EALA, Automotive Circle's international conference on progress in laser-based manufacturing technologies and laser application in automobile production, again gathers its globally leading network of automobile engineering experts in Bad Nauheim, Germany, to evaluate latest developments in the efficient and innovative use of laser systems, especially in view of the need to embrace modern electric propulsion systems.

THIS IS WHERE YOUR CONTRIBUTION IS REQUESTED:

Help shape the discussions on current achievements and future trends in laser beam material processing with your progress report in front of the EALA audience, presenting your latest, industry-relevant research and development results to this international forum of experts.

RANGE OF CONFERENCE TOPICS

▶ NEW LASER APPLICATIONS IN E-MOBILITY

- Innovative laser-based processes in the production of alternative propulsion vehicles or new vehicle architectures
- Laser beam manufacturing processes for battery systems

▶ REPORTS FROM NEIGHBOURING INDUSTRIES

- „Non-automotive“ laser beam joining applications with extreme or unusual requirements, with a potential for transfer to the automotive industry

▶ OPTIMISED PROCESSES

- Digitalisation / Smart Factory solutions:
Predictive maintenance, artificial intelligence (AI) applications
remote maintenance, sensor systems, data management
- Productivity and quality increase in laser beam welding,
brazing, cutting
- Robustness and reliability of production systems
- Intelligent use of robot technology
- Standardised interfaces, improved modularity
- Efficient process simulation
- New laser beam joining technologies
- Series application of laser-based additive manufacturing processes

▶ IMPROVED QUALITY ASSURANCE

- New control and monitoring systems
- Non-destructive testing processes
- Laser safety, occupational hazards
- Ease of use / harmonisation of operational systems

▶ ADVANCES IN LASER SYSTEM TECHNOLOGY

- Improved beam sources, improved optics
- Energy and resource efficiency gains

▶ NEW MATERIALS / MATERIAL COMBINATIONS

- Advances in laser beam joining of modern (lightweight) materials (high-strength steels, aluminium, copper, plastics and composites, hybrid materials, etc.)
- Enabling laser beam joining of new material combinations
- Laser beam mediated softening / functionalisation of component properties

OEM ADVISORY BOARD

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DEADLINE FOR SUBMISSIONS: 27 SEPTEMBER 2019

Interested speakers are kindly requested to submit their suggestion for a conference contribution, together with a concise, non-commercial and informative abstract, via our [Online Form](#). Based on your information, the OEM Advisory Board will evaluate all submissions and decide on the acceptance of your suggestion

FURTHER DATES:

Notification of acceptance
Publication of the conference programme
Submission of the presentation files

Mid-October 2019
Beginning of November 2019
13 December 2019



YOUR CONTACT



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