



LASER USE IN MODERN AUTOMOBILE PRODUCTIONS

For its 20-year anniversary, EALA, Automotive Circle's international conference on progress in laser-based automobile manufacturing technologies, again assembles its world-leading network of expert engineers in Bad Nauheim, Germany, on 12 and 13 February 2019, to hear about and discuss latest developments in efficient and innovative laser applications. This is where your input is called for: 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

- Innovative laser-based processes in the production of alternative propulsion vehicles or new vehicle architectures
- Laser beam joining applications with extreme requirements

➤ Optimised processes

- Digitalisation / Smart Factory solutions:
Predictive maintenance, artificial intelligence (AI) applications, remote maintenance, sensor systems
- Laser beam manufacturing processes in e-car body architectures
- Productivity and quality increase in laser beam welding, brazing, cutting
- 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
- Robustness and reliability of production systems
- Ease of use / harmonisation of operational systems

➤ Advances in laser 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, plastics, 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: 30 SEPTEMBER 2018

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 2018
Beginning of November 2018
14 December 2018



YOUR CONTACT



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