



**AUTO  
MOTIVE  
CIRCLE**

AGENDA

**FEB 6 – 7**  
**EALA 2024**

## TUESDAY | FEBRUARY 6

**8.00 am** **Welcome and conference introduction**  
Dr. Dirk Meine, Automotive Circle, DE  
Dr. Jan-Philipp Weberpals, Audi AG, DE

### **OEM STATUS REPORTS**

**8.15 am** **Holistic approach for laser beam welding for cell contacting of battery modules with highest quality**  
Dr. Jan-Philipp Weberpals, Audi AG, DE; Konstantin Ribalko, Precitec GmbH & Co. KG, DE

**8.45 am** **Border conditions for laser applications in BIW at the Volkswagen brand**  
Meinulf Hinz, Volkswagen AG, DE

**9.15 am** **Copper and aluminium welding in e-automotive: Renault's state of the art**  
Christian Brémont, Groupe Renault, FR

**9.45 am** **Meet the Speakers / Coffee and contacts**

### **BODY STRUCTURE**

**10.30 am** **Optical Coherence Tomography (OCT) in combination with actual welding tasks**  
Richard Steinbrecht, Lessmüller Lasertechnik GmbH, DE

**11.00 am** **AI-based quality control for laser brazing and aluminum welding applications**  
Dr. Michael Ungers, Scansonic MI GmbH, DE

**11.30 am** **Improving the weldability of 22MnB5 in laser beam welding by process superposition with ultrasonic waves**  
Christian Wolf, University of Kassel, Department for Cutting and Joining Manufacturing Processes, DE

**12.00 pm** **Welding aluminum for automotive applications with dynamic beam laser**  
Dr. Robert Bernhard, Civan Lasers Europe GmbH, DE

**12.30 pm** **Meet the Speakers / Lunch break**

### **BATTERY CELLS**

**1.45 pm** **Innovative process and machine for Laser-Tab-Welding**  
Dr. Dmitrij Walter, Manz AG, DE

**2.15 pm** **Highly productive e-mobility applications with a focus on welding contacts for cylindrical batteries**  
Dr. Axel Luft, Scansonic MI GmbH, DE; Uwe Bergmann, Bergmann & Steffen GmbH, DE

**2.45 pm** **Laser welding lattice to cell with in-process monitoring**  
Dr. Mohamed Al-Badani, Jaguar Land Rover Ltd., UK  
Dr. Paul Webster, IPG Photonics Corporation, CA;

**3.15 pm** **Meet the Speakers / Coffee and contacts**

### **BATTERY SYSTEM**

**4.00 pm** **Laser scanner welding of aluminum busbars**  
Dr. Dirk Steffens, Mercedes-Benz AG, DE; Lutz König, Precitec GmbH & Co. KG, DE

**4.30 pm** – online presentation –  
**Porosity reduction in laser welding of Al sheets from BIW to e-mobility**  
Masoud M. Pour, General Motors Company, US

**5.00 pm** **Precision Power Laser: A step change in automotive joining**

David Kilburn, The Lincoln Electric Company, US

**5.30 pm** **Laser welded leak-tight aluminum cooling solutions – series application and progress in large cooling plates industrialization**

Oliver Quirin, Trumpf Laser- und Systemtechnik GmbH, DE

**6.00 pm** **Meet the Speakers / Get together**

**7.00 pm** **Networking Night**

\* All times in CET (UTC+1)

Conference program is subject to change

Status as of: February 2, 2024



**FIND OUT MORE ABOUT US**



**EALA –**  
**EUROPEAN AUTOMOTIVE LASER APPLICATIONS 2024**

SEE YOU NEXT YEAR AT THE **EALA CONFERENCE IN FEBRUARY, 2025** IN BAD NAUHEIM AGAIN!



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## WEDNESDAY | FEBRUARY 7

### NEW THINKING

- 8.00 am** Electrification of the sky and the unique laser welding requirements of the eVTOL industry  
Sebastian Moser, Precitec, Inc., US
- 8.30 am** Addressing the challenges of laser welding for the electric mobility of the future with a beam-shaping solution integrated within the laser head  
Thibaut Atché, Cailabs, FR
- 9.00 am** Evaluation of dual core fiber for automotive seat laser welding applications  
Luc Leportier, Forvia SE, FR
- 9.30 am** Diode Lasers with high wall-plug efficiency for battery cell drying and brake disk cladding  
Dr. Johannes Schäfer, Laserline GmbH, DE
- 10.00 am** Meet the Speakers / Coffee and contacts

### WELDING COPPER

- 10.45 am** Mechanisms and fascinating insights into the formation of pores during welding of copper using different kind of laser sources  
Dr. Andreas Heider, Robert Bosch GmbH, DE
- 11.15 am** Melt pool behavior during hairpin welding – a computational fluid dynamics approach  
Dr. Marcin Serdeczny, Flow3D, Inc., US
- 11.45 am** Application of Laser processing in the visible range for e-mobility parts  
Dr. Hideaki Shirai, Denso Corporation, JP
- 12.15 pm** Examples of tailored solutions in laser welding: High power blue laser application in copper welding; benefit of single mode laser in aluminum remote welding; IR beam shaping applied to martensitic stainless steels  
Stefano Zarini, Optoprim srl, IT
- 12.45 pm** Meet the Speakers / Lunch break

### FUEL CELLS

- 2.00 pm** Laser welding quality inspection through the process monitoring to minimize the defect rate of the EV battery welds  
Dr. Yongjoon Cho, Monitech Co., Ltd., KR
- 2.30 pm** High-throughput printing of laser seams at micro-meter-accuracy for the e-mobility vehicles of tomorrow  
Thibault Bautze-Scherff, Blackbird Robotersysteme GmbH, DE
- 3.00 pm** High-productivity, high-quality laser welding of bipolar plates for fuel cells  
Dr. Dahv Kliner, nLIGHT, Inc., US
- 3.30 pm** **OEM CONCLUSIONS**  
Members of the OEM Advisory Board on current trends and challenges in laser-based automotive manufacturing processes
- 3.45 pm** Farewell address and end of the conference  
Dr. Dirk Meine, Automotive Circle, DE

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