



September 15–16, 2026 in Aachen

LSE'26 – Laser Symposium Electromobility

Program Day 1 – September 15, 2026

- 8:00** **Check-in**
- 9:00** **Welcome**
Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)
- 9:15** **Lab tour**
Fraunhofer ILT, Aachen (D)
RWTH Aachen University – ISEA, Aachen (D)
- 11:15** **Coffee break**
- 11:30** **Laser applications for the electric power train at Mercedes-Benz**
Christian Elsner, Mercedes Benz AG, Stuttgart (D)
- 12:00** **From intensities to properties: In Situ Synchrotron imaging
of dynamic beam shaping for application adapted material properties**
Julia Vielhauer, RWTH Aachen University – Chair for Laser Technology, Aachen (D)
- 12:30** **Lithium-ion battery systems for mobile and stationary applications – technology,
markets and challenges**
Dr. Florian Ringbeck, RWTH Aachen University – ISEA, Aachen (D)
- 13:00** **Lunch break** (Restaurant LuCa)
- 14:15** **Next-generation process monitoring: Sensor fusion for reliable
e-mobility manufacturing**
Daniel Kakusa, weldmetrix, Wien (AT) | Erik Böhm, BMW Group, Leipzig (D)
- 14:45** **Laserwelding in e-mobility – do we need process monitoring?**
Dr. Eveline Reinheimer, Porsche AG, Stuttgart (D)
- 15:15** **Battery packs, eDrive, control units – Laser technology challenges and solutions
from a mechanical engineering company's perspective**
Dr. Andreas Russ, Bosch Manufacturing Solutions, Stuttgart (D)
- 15:45** **Coffee break**
- 16:15** **Interconnection for an electrical architecture in EV – laser welding
with quality assurance**
Dr. Daniel Fuhrmann, TRUMPF SE + Co. KG, Ditzingen (D)
- 16:45** **Flexible and scalable battery production: The hybrid cell manufacturing approach**
Toni Voebel, MANUGY, Köln (D)
- 17:15** **TBA**
TBA
- 17:45** **Résumé of the 1st day**
Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)
- 18:00** **Marketplace – Battery LAB with demonstrations, expert talks, and snacks**
DPP – Forschungscampus Digital Photonic Production Aachen (D)
- 22:00** **End of 1st day**



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Program Day 2 – September 16, 2026

- 8:30** **Check-in**
- 9:00** **Welcome**
Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)
- 9:05** **Laser-based drying of functional electrodes for PEM fuel cells for e-mobility**
Manuella Guirgues, Fraunhofer ILT, Aachen (D)
- 9:35** **TBA**
Simon Zens, BatterieIngenieure GmbH, Aachen (D)
- 10:05** **TBA**
TBA
- 10:35** **Coffee break**
- 11:05** **Countering cost and quality pressure: Increased efficiency and throughput in controlled joining pre-treatment with laser-light**
Edwin Büchter, Clean-Lasersysteme GmbH, Herzogenrath (D)
- 11:35** **Laser automation in e-mobility: From innovation to reality**
Ralf Kimmel, BBS Automation Stuttgart GmbH, Freiberg am Neckar (D)
- 12:05** **Innovative fiber laser solutions for battery production**
Tim Westphäling, IPG Laser GmbH, Burbach (D)
- 12:35** **Lunch break** (Restaurant LuCa)
- 13:50** **USP battery processing – making a difference in productivity**
Tim Rörig, Fraunhofer ILT, Aachen (D)
- 14:20** **Navigating complexity: Data-driven insights for process optimization**
Johannes Gaigl, MAHLE International GmbH, Stuttgart (D)
- 14:50** **Evaluation of the performance of different OCT systems for inline weld penetration depth measurement in remote laser welding for e-mobility**
Thibault Bautze-Scherff, Blackbird Robotersysteme GmbH, Garching bei München (D)
- 15:20** **Panel discussion and outlook**
Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)
- 16:00** **End of Symposium**