



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 Harald Toll, weldmetrix, Wien (AT) Erik Böhm, BMW Group, Leipzig (D)
14:45	TBA Nico Reinheimer, Wolf Produktionssysteme GmbH & Co. KG, Freudenstadt (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 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	Real-time monitoring, closed-loop control and quality control solutions for industrial applications with state-of-the-art high-speed uncooled MWIR cameras and advanced software for both R&D and serial production Tony Mir de la Figuera, NIT Europe, Madrid
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)



September 15–16, 2026 in Aachen

LSE'26 – Laser Symposium Electromobility

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 Zenz, BatterieIngenieure GmbH, Aachen (D)
10:05	AI based laser welding monitoring - latest developments and results Dr. Jan-Philipp Weberpals, Audi AG, Neckarsulm (D)
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 Elie Haddad, IPG Photonics GmbH & Co. KG, 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