



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 (at Fraunhofer ILT)
14:15	Next-generation process monitoring: Sensor fusion for reliable e-mobility manufacturing Arnold Braunsteiner, weldmetrix, Wien (AT) Erik Böhm, BMW Group, Leipzig (D)
14:45	Fixture technology for laser welding and laser soldering of power electronics Nico Reinheimer, Wolf Produktionssysteme GmbH & Co. KG, Freudenstadt (D)
15:15	Scalable laser joining in battery pack manufacturing – Challenges and solutions from a machine builder'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 Dr. Raúl Solís, 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)
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** **Laser as an enabling technology for reproducible abuse testing and thermal propagation evaluation**
Thomas Fedderau, UL International Germany GmbH, Neu-Isenburg (D)
- 10:05** **AI based laser weld monitoring – latest developements 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** **Dynamic Beam Shaping enables welding of challenging material combinations: examples of Aluminum diecast and Copper-Aluminum joints**
Dr. Ole Hill, Civan Lasers Europe GmbH, Hannover (D)
- 12:05** **Innovative fiber laser solutions for battery production**
Elie Haddad, IPG Photonics GmbH & Co. KG, Burbach (D)
- 12:35** **Lunch break** (at [Fraunhofer ILT](#))
- 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, IQLaser GmbH, Garching bei München (D)
- 15:20** **Panel discussion and outlook**
Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)
- 16:00** **End of Symposium**