


January 28–29, 2025 in Aachen

## LSE'25 – Laser Symposium Electromobility

### Program Day 1 – January 28, 2025

- 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)
- 10:45**     **Coffee break**
- 11:00**     **Laser meets synchrotron – Next level of synchrotron experiments in a new light**  
Christoph Spurk, RWTH Aachen University – LLT, Aachen (D)
- 11:30**     **Murphy's Law for laser processing in EM applications**  
Lars-Sören Ott, Reis Robotics GmbH & Co. KG, Würselen (D)
- 12:00**     **Laser technologies for the energy transition: a funded ZIM innovation network to boost scalability and sustainability in production and recycling**  
Dr. Hamza Messaoudi, Eura AG, Ellwangen (D)
- 12:30**     **Panel discussion**
- 13:00**     **Lunch break** (Restaurant LuCa)
- 14:15**     **VERSAPRINT – Improving the safety, performance, recyclability and CO<sub>2</sub> footprint of battery packs in automotive engineering**  
Dr. Johanna Helm, FEV Europe GmbH, Aachen (D)
- 14:45**     **Laser welding of mixed materials with TruFiber laser: single mode vs. brightline mode**  
Dr. Oliver Bocksrocker, TRUMPF Laser- und Systemtechnik AG, Ditzingen (D)
- 15:15**     **Lifetime of Lithium-Ion batteries – fundamentals and perspectives**  
Dr. Florian Ringbeck, RWTH Aachen University – ISEA, Aachen (D)
- 15:45**     **Coffee break**
- 16:15**     **Innovative copper solutions in cell connections of EV battery packs**  
Tomas Jezdinsky, ICA – International Copper Association Europe, Woluwe-Saint-Pierre (B)
- 16:45**     **High-speed laser welding of aluminum battery coolers using dynamic beam shaping**  
Hannes Büttner, Civan Lasers Europe GmbH, Hannover (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 – January 29, 2025

- 8:45**      **Check-in**
- 9:05**      **Application of laser technology in electrode production and cell assembly**  
Dr. Michael Deutmeyer, EAS Batteries GmbH, Nordhausen (D)
- 9:35**      **The future of Solid-State batteries: challenges and opportunities for laser technology**  
Prof. Arnold Gillner, RWTH Aachen University – LLT, Aachen (D)
- 10:05**     **Advancements in laser drying of Lithium-Ion battery electrode**  
Delil Idris Demir, Fraunhofer ILT, Aachen (D)
- 10:35**     **Coffee break**
- 11:05**     **TBA**  
TBA
- 11:35**     **Ramping up battery pack production – Requirements, challenges, and innovations**  
Alexander Dörr, KION Battery Systems GmbH, Karlstein am Main (D)
- 12:05**     **Fast compact scanners for e-Mobility applications with a focus on welding contacts for cylindrical batteries**  
Dr. Axel Luft, Scansonic MI GmbH, Berlin (D)  
Uwe Bergmann, Bergmann & Steffen GmbH, Spenge (D)
- 12:35**     **Lunch break** (Restaurant LuCa)
- 13:50**     **Laser beam welding of aluminum-copper material combinations for the 800V vehicle electrical system**  
Dr. Christian Otten, LaVa-X GmbH, Herzogenrath (D)
- 14:20**     **TBA**  
Dr. Sören Hollatz, 4D Photonics GmbH, Isenhagen (D)
- 14:50**     **Smart welding – Using AI and deep learning to optimize the welding of aluminum battery cases**  
Julius Neuss, Fraunhofer ILT, Aachen (D)
- 15:20**     **Panel discussion and outlook**  
Dr. Alexander Olowinsky, Fraunhofer ILT, Aachen (D)
- 16:00**     **End of Symposium**