

# LaserEMobility Workshop 2022

Network and know-how for Laser based manufacturing in the EV sector

Organized by



POLITECNICO  
MILANO 1863



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA



Supported by



European Photonics  
Industry Consortium



10<sup>TH</sup> and 11<sup>TH</sup> March 2022 - BI-REX Competence Center, Bologna (Italy)

LASER E-MOBILITY WORKSHOP AIMS TO BE A PLACE OF DISCUSSION BETWEEN LASER COMPONENT MANUFACTURERS, SYSTEM INTEGRATORS AND END-USERS IN EV SECTOR

On this two-day event component manufacturers, system integrators, and end-users from the e-mobility world get together to present the novel solutions and the future needs of the sector. **The workshop is free of charge.**

The event is planned to have discussions channelled towards the main issues of the sector. The round table discussion will put together the key players and academia together to foresee the next challenges.

**CLICK HERE  
TO REGISTER**



The event will be held in phygital mode: it will take place at BI-REX headquarters and will be broadcasted in live webstream

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www.eLENlaser.it



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based manufacturing in the EV sector

**BI-REX**

Big Data Innovation & Research Excellence

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THE DETAILED PROGRAM

## 10th March 2022

9:00 Registration desk opens for in-person participants

9:20 Welcome speeches

**Stefano Cattorini**, Managing Director BI-REX

**Alfredo Liverani**

Director of Industrial Engineering Department (DIN)

**Luca Settineri**, President of Italian Association  
of Manufacturing Technologies (AITeM)

**Vincenzo Colla**

Councilor for Economic Development and Green Eco-  
nomy, Employment, Training at Emilia-Romagna Region

**Alessandro Fortunato**

LaserEMobility Workshop Co-organizer

### Advanced sources, beam shaping, and monitoring

10:00 Overcoming challenges in EV production with Adjustable  
Ring Mode fiber lasers,  
**Thomas Hofmeister**, Coherent

10:20 Highly integrated laser systems and processes for  
E-Mobility manufacturing,  
**Matthias Beranek**, Trumpf

10:40 Advanced laser solutions for the E-Mobility industry,  
**Stefano Cattaneo**, IPG Photonics

11:00 Coffee break

11:40 Hairpin laser stripping, **Giovanni Masotti**, ELen

12:00 Tailored solutions from a partner in laser E-Mobility:  
Results from wavelengths and beam shaping blend,  
**Salvatore Salerno**, Optoprim

12:20 Laser Processing of EV Battery Electrodes  
**Philippe Leopold**, Lumentum

12:40 Lunch break

14:10 Going green - Laser welding and smart sensor  
technology driving E-Mobility, **Jens Reiser**, Precitec

14:30 OCT applications for laser welding in battery  
production, **Richard Steinbrecht**, Lessmüller

14:50 How pre-focusing deflection units from Raylase enable  
E-Mobility applications and optimize process monitoring,  
**Jan Habedank**, Raylase

15:10 In-line production monitoring of battery welding  
processes, **Luca Porcelluzzi**, MKS Instruments

15:30 Coffee break

### Brainstorming event moderated by EPIC (1h30')

16:10 Four specific E-Mobility themes, in open discussion, in  
four corners of the room.  
Moderator: **Antonio Raspa**, EPIC

Day 1 closure

17:40 Final Remarks

## 11th March 2022

### End-users and future prospects

9:00 Ducati's electrification challenges, **Roberto Canè**, Ducati

9:20 The future of electrification at Ferrari, **Luca Poggio**, Ferrari

9:40 Title to be defined, **Stefano Mazzetti**, Lamborghini

10:00 Title to be defined, **Luca Vescovi**, Dallara

10:20 Coffee break

### From process to system

11:00 Improving laser operation performance for the e-drive: From  
processing to testing, **Davide Chesi**, IMA Automation ATOP

11:20 Future battery technologies: Manz approach,  
**Giorgio Balugani**, Manz

11:40 Development of a laser welding cell for prototyping Li-ion  
batteries, **Lorenzo Ceccon**, Nextema

12:00 Electrical testing in the production of battery modules and  
packs, **Anisa Kapxhiu**, Marposs

12:20 Lunch break

13:50 BorgWarner - LaserEMobility 2022,  
**Davide Spazian**, BorgWarner

14:10 Laser welding in high performance battery system and  
manufacturing challenges, **Giuliano Ellena**, Podium Tech

14:30 The combination of advanced sensors and artificial intelligence  
to unlock batteries production,  
**Massimiliano Moruzzi**, Augmenta

14:50 Coffee break

### LaserEMobility Research

15:30 Lasers for E-Mobility in Bologna

15:50 Lasers for E-Mobility in Milan

16:10 Lasers for E-Mobility in Munich

### Rountable discussion

16:30 Photons for electrons – Towards the LaserEMobility Network

### Virtual lab tour and Workshop closure

17:10 Final Remarks

For further info you can refer to the [webpage](#).

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