

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



10TH and 11TH 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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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

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, EIE**

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 electrode,*
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*

Vital lab tour and Workshop closure

17:10 Final Remarks

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

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www.elelaser.it

