LaserEMobility Workshop 2022

THE DETAILED PROGRAM

FIRST DAY - 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 Economy, 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

SECOND DAY - 11th March 2022

End-users and future prospects

9:00 *Title to be defined*, 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*

Vitual lab tour and Workshop closure

17:10 Final remarks