LaserEMobility Workshop 2022

THE DETAILED PROGRAM

FIRST DAY - 10\textsuperscript{th} 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 (AI\textsc{Te}M)
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 Habelank, 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 - 11\textsuperscript{th} 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

Roundtable discussion
16:30 Photons for electrons – Towards the LaserEMobility Network

Virtual lab tour and Workshop closure
17:10 Final remarks