



"Driving the Future: Unveiling Breakthroughs in Electric Vehicle Technologies - Insights from European Research and Innovation"

Friday, March 15th 10:00 - 12:00 online

Welcome and opening

Powertrain design and assessment / Energy efficiency of vehicle sub-systems

- 48V systems for automotive applications Marc Gouvernon, Valeo; Multi-Moby
- Efficient Bidirectional On-Board Chargers Hans Wouters, KULeuven; PowerDrive
- Efficient Inverter Design with the latest power MOSFET Technology Walter Faedo, DANA TM4; Multi-Moby
- Li-ion and hybrid supercapacitor batteries and DC charging for lightweight electric vehicles Eric Verhulst, Altreonic NV; Multi-Moby

Passive and active safety of electric vehicle / Simulation tools for the rapid assessment and development of electric vehicles

- MultiMoby Vehicles structural design for Low Production cost and cyber secure electrical and electronics architecture Pietro Perlo and Marco Biasiotto, I-FEVS; Multi-Moby
- Axle-Torque-Vectoring (ATV) control algorithm, tested on real vehicle Gaetano Tavolo, USR; Multi-Moby
- Pre-emptive traction control & ABS Philip So, USR; Multi-Moby
- Integral safety in urban electric vehicles Javier Romo García, Cidaut; Multi-Moby
- Toolchain for vehicle-level simulation Bo Wang, USR; EM-TECH, HighScape & HiPE

Product life cycle assessment, materials combination, eco-design and other recyclability aspects

- **Design, manufacturing and validation of ecocylce electric traction motor** Jenni Pippuri-Mäkeläinen, VTT; VOLTCAR
- Life Cycle Assessment for ecodesign of MAXIMA EM Lea D'amore, VUB; MAXIMA
- LCA and LCC of e-drives for high-efficient and sustainable e-mobility Antonella Accardo, POLITO; EM-TECH

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