



Politecnico
di Torino

14/15
NOV

Aula Magna

Politecnico di Torino
corso Duca degli Abruzzi 24

TOWARDS THE SUSTAINABLE VEHICLE ERA

Workshop

14th November 2023 Future Trends in Low Emission Vehicles

8:30-9:00 Participants Registration

Workshop Opening

9:00-9:15 Matteo Sonza Reorda | Vice Rector for Research, Politecnico di Torino | *Welcome Speech*

9:15-9:30 Giovanni Amateis | Directorate for the competitiveness of the regional system, Regione Piemonte | *Action of the regional government to support the research in the field of the automotive engineering*

9:30-9:50 Nicola Amati & Radu Bojoi | CARS @PoliTO, PEIC @PoliTO
The new paradigm of collaboration between academia and industry for future low emission vehicles

Session 1

Perspective on vehicle trends considering the new regulations

9:50-10:10 Vicente Franco | European Commission - DG GROW
(web connection)
Euro 7 regulation: the state of play

10:10-10:30 Dario Manara | Joint Research Centre
Three years of market surveillance on vehicle emissions at JRC. Results, lessons learnt and challenges

10:30-10:50 Domenico Dino Brancale | AVL Italy
efuels & biofuels: the perspective

10:50-11:20 Coffee Break

Session 2

Tires, Chassis and Powertrain Design to improve the vehicle efficiency

11:20-11:40 Valerio Castelli | AVL Italy
Holistic modelling approach for BEVs

11:40-12:00 Andrea Arcuraci | FPT Industrial
FPT ePowertrain: technology rEvolution

12:00-12:20 Piero Losi | Pirelli

New trends on tire design to improve the vehicle efficiency

12:20-12:40 Piero Monchiero | Marelli Ride Dynamics

Ride dynamic technical evolution with the full active system

12:40-13:00 Gianluca Cariccia and Miriam Nardone | DAYCO

e-bicycles: new opportunities to improve the quality of the life

13:00-14:00 Lunch Break

Session 3

Electrification of the Powertrain – Components & Subsystems

14:00-14:30 Francesco Iannuzzo | Aalborg University, Denmark
Large-scale adoption of SiC in automotive: last step to go?

14:30-14:50 Luca Zai | Eldor Corporation Italy
Generating innovation from the collaboration between university and industry. The value seen from the perspective of a Tier1 in e-mobility

14:50-15:10 Massimo Carbone | Vishay Semiconductor Italiana
To enable tomorrow innovation in power semiconductor for e-mobility

15:10-15:30 Andrea Dappiano | Marelli MotorSport Italy
A race against time, Motorsport to mass production electrification

15:30-15:50 Klaus Lang | HBK GmbH, Germany
Shortening edrive test time using advanced acquisition and analysis methods

15:50-16:30 Coffee Break

16:00-18:00

Poster Session | Sala Emma Strada

Proto Exhibition | Court in front of Aula Magna

Visit to PEIC Laboratories

Visit to CARS testing facility



REGISTRATION
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TOWARDS THE SUSTAINABLE VEHICLE ERA

Workshop

15th November 2023 Automated and Connected Vehicles

8:30-9:00 Participants Registration

Workshop Opening

9:00-9:15 Luca Settineri | Vice Rector for Policy Planning and Infrastructure, Politecnico di Torino | *Welcome Speech*

9:15-9:30 Chiara Foglietta | Assessor of Torino Municipality for ecological transition, digital, innovation, environment, mobility and transport | *Mobility and digital: how the City of Torino is facing the challenge of the urban transportation system*

Session 1 Regulations and perspectives

9:30-9:50 Giovanni Federigo De Santi | Politecnico di Torino
The energy and transport policies in Europe and Italy: present and future

9:50-10:10 Maria Cristina Galassi | European Commission - DG GROW
(web connection)
EU 2022/1426: paving the way to driverless vehicles in Europe

10:10-10:30 Biagio Ciuffo | Joint Research Center
Lights and shades in the development and deployment of connected and automated vehicles - Current status and future outlook

10:30-10:50 Vincenzo Punzo | European Partnership on Connected, Cooperative & Automated Mobility
The Horizon Europe CCAM Partnership: an overview

10:50-11:20 Coffee Break

Session 2 Technologies for Automated and Connected Vehicles

11:20-11:40 Roberto Fantini | TIM
Connected vehicles: TIM perspective and experiences

11:40-12:00 Francesco Lilli | Stellantis
Technologies for automated vehicles

12:00-12:20 Franco Oberti | PUNCH Softronix
Navigating the road to automotive cybersecurity compliance

12:20-12:40 Ilario Gerlero | Sensor Reply
Vehicle Simulators for Driver and Mission Monitoring

12:40-13:00 Huilong Yu | Beijing Institute of Technology
(web connection)
Decision-making and control of autonomous vehicles under uncertainties

13:00-14:00 Lunch Break

Session 3 Connectivity and Cybersecurity

14:00-14:20 Matteo Sonza Reorda | Politecnico di Torino
Reliability challenges for autonomous vehicles

14:20-14:40 Daniele Brevi | Links Foundation
Vehicular communications: technologies, challenges and research trends

14:40-15:00 Roberto Montanari | Re:Lab
Innovative human-centric perspectives in automotive technologies

15:00-15:20 Walter Nesci | ESWS- Embedded Software System
Automotive cyber security: threats and vulnerabilities management and testing supported by automated toolchain

15:20-15:40 Roberto Di Stefano | Bizclap
Tailored and accurate range prediction methods in BEVs

15:40-16:00 Carla Fabiana Chiasserini | Politecnico di Torino
When connected vehicles learn from their experience

16:00-16:30 Coffee Break

16:00-18:00

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