6th International Conference
Diesel Powertrains 3.0

July 8–9, 2020
Turin, Italy

Now also containing CV and NRMM
In cooperation with the SAE partner conference
Turin · July 7 – 8, 2020
DEAR COLLEAGUES,

Two requirements drive the entire transportation industry nowadays: the substantial reduction of GHG emissions towards a carbon-neutral mobility by 2050 and the reduction of pollutant emission to meet air quality requirements even in the most congested urban areas. The electrification of the transport system supports both requirements. Nevertheless, new, alternative propulsion systems are still facing significant challenges for a larger market penetration, as the operational capability and costs do not meet all customer requirements. Not only industry experts are calling for further refined and optimized powertrains as key element in the upcoming transition from ICE-based powertrains to electric propulsion systems in a larger scale.

Despite the ongoing public discussion the modern Diesel engine represents a highly attractive powertrain. The latest developments demonstrate, that Diesel-powered vehicles are among the cleanest vehicles available in the marketplace, while maintaining their superior fuel economy compared to other propulsion systems. Its high efficiency positions the Diesel engine as an attractive element for future powertrain lineups, even under more tightened regulatory boundary conditions and simultaneously altering market conditions.

The 6th edition of FEV’s international expert conference “Diesel Powertrains 3.0” is for the first time integrating HD On-/Off-Highway themes into the program and will be hosted in Turin, Italy on July 8–9, 2020.

In addition, we are delighted to announce, that the FEV conference will be an integral part of the comprehensive CO2 reduction for Transportation Systems conference of ATA/ANFIA and SAE Torino.

As a highly focused engineering community meeting, the event will provide valuable in-depth insights into novel and upcoming technological innovations for the next generation of sustainable, Diesel-engine propulsion systems. Register for the conference as an attendee to secure your ticket and start preparing your trip to Turin.

With best regards

Thomas Körfer
Group Vice President
Diesel Powertrains
FEV Group GmbH
End of SAE Conference

Registration / Lunch break

UPCOMING CHALLENGES

13:30-13:40 Welcome Speech
FEV Group / FEV Italia

13:40-14:10 Keynote: Post Euro 6 – The European emission regulations towards vehicles with ultra clean internal combustion engines
Zissis Samaras Aristotle University of Thessaloniki

14:10-14:40 Keynote: Post EU-6/-VI Norms: How well are we prepared for the next emission level towards Near Zero Impact
Dirk Bosteels AECC

CLEAN AIR TECHNOLOGIES I

14:40-15:05 Innovative CSF+ Technology to Meet HDD COP and ISC PN Requirements
Robert Dorner BASF

15:05-15:30 Managing reputation and emissions compliance through independent real-world testing, how do the latest vehicles compare in terms of NOx, particulates and CO2
Nick Molden Emission Analytics

15:30-16:00 Coffee Break

CLEAN AIR TECHNOLOGIES II

16:00-16:25 Pathways to near zero emissions from ICE powered light- and heavy-duty vehicles
Ameya Joshi Corning

16:25-16:50 Future Diesel Engines - The Challenge of Air Quality
Michael Krüger Robert Bosch

16:50-17:15 Challenges on the EATS development for OFF-ROAD application
Yves Hohl Liebherr

17:15-17:40 Super Clean Electrified Diesel; Catalyst System for Unlimited Clean Mobility
Rolf Brück Vitesco Technologies Emitec

17:40-18:05 Advanced SCR Mixing Sections and electrically assisted thermal management – key enablers for zero impact powertrains
Christoph Menne HJS

18:05-18:30 Next generation onboard AdBlue® system : all-in-one, intelligent and highly dynamic
Joel Op de Beeck Plastic Omnium

18:30 End of day 1

19:30 Conference dinner
### THURSDAY, JULY 9th

**08:15-08:30**  **Opening - Wrap up of 1st day & introduction to 2nd day**

**FEV Group**

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**FUEL EFFICIENCY AND CO2 REDUCTION I**  **08:30-10:35**

- **08:30-08:55**  The Role of Diesel Powertrain, and the related Exhaust Thermal Systems, in the Fleet CO2 Reduction
  - Guillaume Hebert
  - Hanon

- **08:55-09:20**  The New Euro6D GM-Opel 1.5l Diesel 3-cylinder Engine: low emissions meet high efficiency
  - Alberto Vasallo
  - GM

- **09:20-09:45**  Real-time Estimation of CO2 and NOx emissions in a Diesel Vehicle
  - Teresa Donateo
  - Uni Salento

- **09:45-10:10**  CFD investigation of HVO sprays and assessment of its surrogate compositions
  - Prashant Goel
  - Politecnico di Torino

- **10:10-10:35**  Efficient commercial powertrains – How to achieve a 30% GHG reduction in 2030
  - Dieter van der Put
  - FEV Group

**10:35-11:10**  **Coffee Break**

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**FUEL EFFICIENCY AND CO2 REDUCTION II**  **11:10-14:25**

- **11:10-11:35**  Dynamic Skip Fire (DSF) to Improve Simultaneously Emissions and Fuel Economy of Future Commercial Vehicle Diesel Engines
  - Kevin Chen
  - Tula Technologies

- **11:35-12:00**  Potential of low-pressure EGR in combination with electric turbocharging for heavy-duty applications
  - Harsh Shankla
  - FEV

- **12:00-12:25**  VVA strategies on HD engines for on-road applications, to meet future emissions regulations
  - Nicola Andrisani
  - Eaton

- **12:25-12:50**  Cylinder Deactivation as effective means for Exhaust Thermal Management and CO2 reduction- Test Results on a US 13L HDDE
  - Robb Janak
  - JVS

**12:50-14:00**  **Lunch**

**14:00-14:25**  LCV Diesel Emission Control and Considerations for Emission Monitoring
  - Sebastian Visser
  - Denso

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**RDE DEVELOPMENT**  **14:25-18:15**

- **14:25-14:50**  Awaiting confirmation

- **14:50-15:15**  An Innovative Approach to Engine Virtual Calibration Using Real Time Models Integrating Physical and Machine Learning Solutions
  - Emanuele Servetto
  - Powertech Engineering SRL

- **15:15-15:40**  Quality and Cost Improvements in Series Calibration for Diesel Powertrains through Virtualization
  - Florian Schu
  - FEV Europe

**15:40-16:15**  **Coffee Break**

**16:15-16:40**  Observations on In-Service Bus Applications under real world driving patterns
  - Mark Peckham
  - Cambustion

- **16:40-17:05**  OBD versus real-life (PEMS) emissions
  - Matthias Weber
  - Roben

- **17:05-17:30**  OBD Development for upcoming Diesel-Hybrid Trucks – Technical Requirements and Engineering Approach
  - Ender Nadir
  - FEV Asia

- **17:30-17:55**  Awaiting confirmation

**18:00-18:15**  **Conclusion and thanking guests**

**18:15**  **End of the conference**
ARRIVAL AND SIDE PROGRAM

Conference location
Politecnico di Torino
Room: Aula Magna “Giovanni Agnelli”
Corso Duca degli Abruzzi, 24
10129 – Turin – Italy

drty representatives. In the evening of the first conference
day the delegates are invited to join the reception dinner
in the restaurant:

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Diesel Powertrains 3.0 offers multiple opportunities for
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> Political stakeholders
Please contact us for further information about Diesel Powertrains 3.0:
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Other FEV Conferences

4th INTERNATIONAL CONFERENCE
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