Dear Customer,

in this newsletter we will inform you about following topics:

- **Magna Powertrain**: Function development of traction control systems
- **Iveco**: Simulation of multi-axle trucks for diverse ESP tests
- **Dr. Chucholowski**: "Real Driving Emissions" and their measurement in virtual testing
- **DynaR3.3.8**: Model news for tires, diesel engines and emission control
- **Presentation**: Parametrical approach for modeling of tire forces and torques in TMEasy 5
- **HiL systems**: Many supported platforms
- **Training courses 2016**

**News 1/2016**

**Magna Powertrain: Function development of traction control systems**

At the Virtual Powertrain Creation Congress 2015, Magna Powertrain presented their method of frontloading in the function development of traction control systems. One focus is the close cooperation of the full vehicle simulation veDYNA and the road tests. Magna Powertrain's extensive range of application extends from simulation of concept evaluation to pre application and accompaniment of driving tests.

Read more

**Iveco: Simulation of multi-axle trucks for diverse ESP tests**

For several years now, Iveco not only examines the truck stability on the proving ground but also additionally by using simulation. In order to further extend the test catalogue for the vehicle dynamics control (ESP), detailed simulation models were built for multi-axle trucks in the simulation framework software DYNA4 Commercial Vehicles. This not only allows driving automated test catalogues, but is also forms the prerequisite requirement for simulation based homologation in accordance with ECE R13.

Read more
"Real Driving Emissions" and their measurement in virtual testing

At the moment, a huge amount of effort is being focused on measuring real driving emissions and fuel consumption in real road tests and on finding out why they differ from those measured during test stand tests. However, it is also possible with relatively little effort to test the conformity of a real ECU in a virtual road test. All that is required is a Hardware-in-the-Loop (HiL) test stand and suitable simulation models.

Read the entire comment >>

DYNAware R3.3.8: Model news for tires, diesel engines and emission control

- Improved diesel simulation models in enDYNA Thermo
- Extended library of exhaust system models, incl. EGR, LNT, SCR technology
- New tire models TMeasy 5 and FTire in veDYNA
- Compatibility updates, e.g. for Matlab R2015a and diverse HiL platforms

More on DYNAware R3.3.8 >>

Presentation: Parametrical approach for modeling of tire forces and torques in TMeasy 5

The tire model TMeasy has been proved for many years in PC applications as well as in Hardware-in-the-Loop systems. TMeasy5 now offers a closer look on the effective contact area. It is focused on reliable courses and hysteresis of stationary forces and torques e.g. in parking situations. In our presentation on March 15-16, 2016 at the 16th International Stuttgart Symposium we will describe the model approach and discuss the model behaviour. The results will be compared to measurements.

Read more >>

HiL systems: Many supported platforms

The TESIS DYNAware real time simulation software DYNA4, veDYNA and enDYNA offers a lot independence and flexibility in the choice of your HiL platform. The range covers in the latest versions also Vector CANoe and Simulink Real-Time.

Compatibility overview >>
Training courses 2016

Our training courses include veDYNA/enDYNA and DYNA4 dates in monthly allowance. Obviously you can book flexible dates at your site!

- **DYNA4 Framework:**
  - from January 19, 2016 in Munich
- **veDYNA or enDYNA foundations:**
  - from February 23, 2016 in Munich

More training courses >>

More information and contact

- TESIS DYNAware: About us – [More >>](#)
- DYNA4 Modular simulation framework for efficient support of your work with simulation – [More >>](#)
- DYNA4 Driver Assistance: Traffic model. 3D road and animation – [More >>](#)
- DYNA4 Car Professional: Advanced vehicle model, 3D road and driving maneuvers – [More >>](#)
- DYNA4 Engine Professional: Thermodynamic engine models for gasoline, diesel and HCCI engines – [More >>](#)
- DYNA4 Advanced Powertrain: Drivetrain simulation in hybrid, electric & conventional vehicles – [More >>](#)
- DYNA4 Commercial Vehicles: Truck Simulation in Real-Time – [More >>](#)
- Services for special simulation tasks – [More >>](#)

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