Media Alert:

ESI Shares its Engineering Solutions for Smart Driving at SAE WCX 18

Showcasing Virtual Car Prototyping

Who? ESI Group is a leading innovator in Virtual Prototyping software and services for manufacturing industries. Specialist in material physics, ESI has developed a unique proficiency in helping industrial manufacturers replace physical prototypes with virtual prototypes, allowing them to virtually manufacture, assemble, test and pre-certify their future products.

What? ESI will attend this year WCX: SAE World Congress Experience in Detroit next month. ESI will channel this international event, to provide interactive means to discover the newest technologies in Smart Driving for the automotive and mobility industries. The team will support visitors in finding potential solutions to answer the challenges of the industry, by interacting with them in various presentations and demos at booth 12003.

Image: ESI will share its expertise in Smart Driving at both SAE WCX and during a seminar the Farmington Hills office

From April 10 to 12, ESI will offer technical and interactive discussions on electric vehicles with the Virtual Reality solution IC.IDO, the complete vibro-acoustic simulation solution VA One and SimulationX, its proven solution for dynamic Multiphysics system simulation. ESI experts will support knowledge-sharing and review the industries evolution to provide critical insights on the latest technologies and regulations related to powertrain, propulsion, emission, safety and electronics. During the technical session of this three-day conference, ESI will share its expertise in several main topics:

- **From design data to reliable noise radiation prediction – a holistic simulation approach demonstrated on a gearbox** – presenting a joint Work with ESI VA One and ESI's SimulationX
- **Hybrid energy storages for electric vehicles: A comparison of different setups through system simulation including a highly realistic vehicle model** – a collaboration with Austrian Institute of Technology
- **Modeling frequency dependent behavior of vibration dampers for dynamic NVH powertrain simulations based on Modelica**
- **Integrating SimulationX into the product's MBSE lifecycle**
- **Virtual Car Prototyping in Realistic Driving Environment: Examples of deep water crossing and heavy rain management**

By showing visitors demos, ESI will present insightful manufacturers challenges on build and validation process prior to design phase in which actual automotive suppliers interactively and immersively installed pieces of their machines. On April 12, ESI will illustrate those examples by sharing its conclusions on its joints collaboration with Ford Motor Company focusing on the human factors in seating comfort. Both teams will enhance the critical importance of virtual temperature controlled seat performance test. ESI will also attend the NVH CAE Analysis & Testing Correlations technical session to address how engineers can simulate the acoustic of multilayered noise control treatment with porous material and the correlation and verification of a tractor cab model using statistical energy analysis

Following the event and enrich the conversation, ESI will also host a SimulationX seminar on April 17 at the Farmington Hills office so that visitors at WCX: SAE World Congress Experience can have a further overview of the state of the art in system modelling.

When? 10-12 April 2018

Where? Detroit, MI, United States – Booth #12003

For more info, please visit: www.esi-group.com/company/events/2018/sae-wcx-18

To learn more, register for our SimulationX seminar: www.esi-group.com/company/events/2018/simulationx-seminar-detroit

For more ESI news, visit: www.esi-group.com/press

For additional information, please contact:

Media Relations
Leah Charters
+1 248-381-8231

About ESI Group

ESI Group is a leading innovator in Virtual Prototyping software and services. Specialist in material physics, ESI has developed a unique proficiency in helping industrial manufacturers replace physical prototypes by virtual prototypes, allowing them to virtually manufacture, assemble, test and pre-certify their future products. Coupled with the latest technologies, Virtual Prototyping is now anchored in the wider concept of the *Product Performance Lifecycle*™, which addresses the operational performance of a product during its entire lifecycle, from launch to disposal. The creation of a *Hybrid Twin*™, leveraging simulation, physics and data analytics, enables manufacturers to deliver smarter and connected products, to predict product performance and to anticipate maintenance needs.

ESI is a French company listed in compartment B of NYSE Euronext Paris. Present in more than 40 countries, and addressing every major industrial sector, ESI Group employs about 1200 high-level specialists around the world and reported annual sales of €141 million in 2016. For more information, please visit www.esi-group.com.

Follow ESI