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Free

Future for powertrain testing

- ★ Siemens-LMS Testing Technology Seminar for Next-Generation NVH Engineering.
- ★ Get an overview of all latest NVH testing and engineering techniques in only one day!

Optimizing the NVH of downsized powertrains is often a challenge, due to lacking experience and benchmark data. Learn in this session how to deal with NVH challenges of new powertrain designs using Siemens-LMS Testing solutions.

Improve your vehicle's vibro-acoustic comfort with innovative techniques for transfer path analysis. New TPA techniques also perfectly support the of energy-efficient vehicles, where unmasked road and wind noise may generate discomfort. In this session, understand how TPA techniques can help you solve vibro-acoustics issues.

The toughest challenge facing any acoustics engineer is figuring out where the sound originates – especially when there is a good portion of interference and reverberation. Learn more about the theory behind the various sound source localization methods and discover tips to help you determine the methods that is the best one for you.



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AGENDA

On August 25, 2017

at Bitec Bangna

Time	Details
08.30 – 09.00 am	Registration
09:00 – 09:45 am	Challenges coming from new powertrains, such as downsized powertrains and electrified powertrains: <ul style="list-style-type: none"> • Consequences for the NVH engineer on the way to perform tests, • What type of measurements are required on a powertrain test stand, • Trend towards integration of different measurement systems within LMS Test.Lab • How to access to information from ECUs on the powertrain
09:45 – 10:45 am	Engine downsizing, increasing need for torsional vibration testing: <ul style="list-style-type: none"> • How to test torsional vibrations? • What different sensor types exist and how to instrument? • What are the pitfalls when doing torsional vibration measurements? • Application examples <ul style="list-style-type: none"> ○ Crank shaft torsional vibration measurements ○ Measuring Transmission error
10:45 – 11:00 am	Tea break
11:00 – 11:45 am	Combustion Analysis: <ul style="list-style-type: none"> • What is combustion analysis? Why is it of interest for the NVH engineer • How to perform a combustion analysis? • What metrics exist?
11:45 – 12:30 pm	Functional performance testing on the powertrain: <ul style="list-style-type: none"> • Valve train performance testing • How to identify piston slap? • How to measure and reduce driveline unbalances
12:30 – 13:30 pm	Lunch
13:30 – 15:00 pm	Powertrain Acoustics: <ul style="list-style-type: none"> • Sound Quality of powertrains • Consequence of Electrification on the sound quality • Measuring Sound power and Sound Source Localization on powertrains • <u>LMS Sound Camera launch & demonstration</u>
15:00 – 15:15 pm	Tea break
15:15 – 16:30 pm	Powertrain Integration: <ul style="list-style-type: none"> • Use of TPA for integrating the powertrain within the vehicle while keeping control on NVH and comfort • Application examples
16:30 – 17:00 pm	Closing and Q&A

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