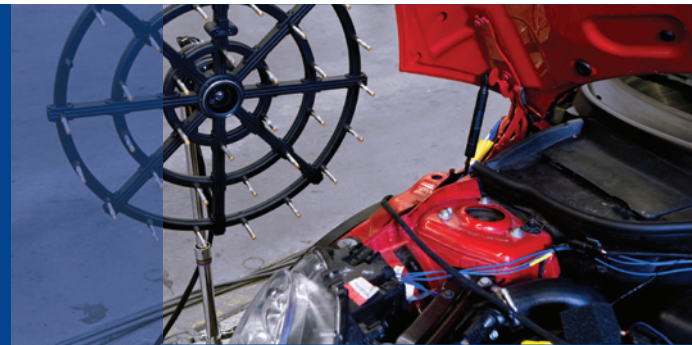


# One day seminar\* on **Automotive NVH: Challenges & Problem Solving Techniques**

**August 30, 2010, Gurgaon**



Noise and Vibration levels of products and infrastructure face an ever increasing level of compliance due to regulation and law. Furthermore, bettering these attributes has become a crucial factor in competitive advantage and intellectual property. The persistent questions remain...

- What are the main sources of sound and how do they contribute to what my customer hears?
- How do I reduce development and production costs by taking the right decisions in my design process?
- Does my product suffer from structural resonances contributing to noise?
- Does my noise sounds right?
- Does insulating help and if so where do I put it?

**SAE India (Northern Section), Maruti Suzuki & LMS International** are pleased to invite you to participate in a one day seminar on “**Automotive NVH: Challenges & Problem Solving Techniques**” to be held on 30th August 2010, at Japanese Hostel, Gurgaon. This seminar gives an overview of the N&V data measurement and analysis techniques that help in identifying problems early in the design cycle and more importantly how to solve them. Through a series of real-life application cases delegates will understand how LMS has helped companies across diverse industries from around the globe solve their Noise & Vibration problems. As noise becomes an important topic for engineers, consultants and researchers developing or refining products, the importance of understanding the sound engineering fundamentals has become crucial. SAE (NIS) has designed this seminar to give an insight into field of acoustics and its growing importance.

Live demonstrations and testing methods will be presented throughout this event to help reinforce the topics and provide practical insight to those new to or already within the world of sound engineering.

## Agenda

<b>09:30</b>	Inauguration & welcome by Mr. C V Raman, Chief General Manager, Research & Development, Maruti Suzuki	<b>13:00</b>	Lunch break
<b>09:45</b>	Keynote speech by Dirk De Vis, Vice President Technology at LMS International	<b>14:00</b>	<b>Advanced Acoustics</b>
<b>10:30</b>	Tea break		<ul style="list-style-type: none"> <li>• Sound Quality</li> <li>• Sound Source Localisation (SSL) / Noise Source Identification Techniques</li> <li>• Transfer Path Analysis (TPA)</li> </ul>
<b>11:00</b>	<b>Basics of Acoustics</b>	<b>16:00</b>	Tea break
	<ul style="list-style-type: none"> <li>• Introduction to automotive NVH</li> <li>• Contributing sources of Noise &amp; Vibration in an automobile</li> <li>• Data Measurement &amp; Analysis Techniques</li> <li>• Overview on Cabin noise, Torsional Vibration, Modal Testing and Analysis with reference to case studies</li> </ul>	<b>16:30</b>	Virtual Sound & Durability Engineering
		<b>17:30</b>	Q&A and Conclusion
		<b>18:00</b>	High tea



### Venue

Japanese Hostel | Industrial Development Area | Sector-16  
 Opp. Management Development Institute | Gurgaon | Haryana



### Contact person

Mr. Avnish Gosain  
 avnish.gosain@maruti.co.in

\* for SAE members only

**Free online registration**

[www.saenis.org/AutomotiveNVH](http://www.saenis.org/AutomotiveNVH)

