

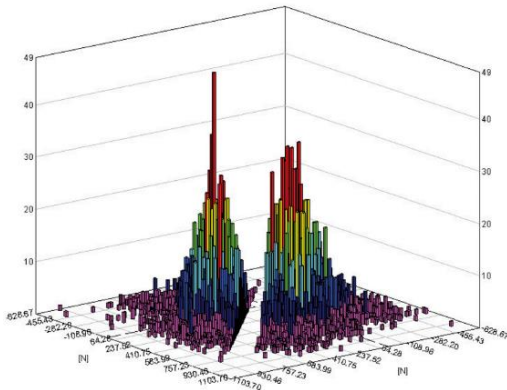
# Road Load Data Processing Technique for Durability Optimization by using LMS Solutions

Bangkok, Thailand – Feb 24<sup>th</sup>, 2017  
ADT Systems ( Asia Pacific) Co., Ltd

## ADT Systems Seminar for RLDA & RLDP

Get an overview of all latest Road load data processing techniques in only one day!

Today's customers have more on their wish list than a durable vehicle. They expect a wide variety of vehicle types, a higher quality, preferably at a lower price. But more vehicle variants put more pressure on durability engineering departments as they need to design and validate more load-cases in less time, without compromising on accuracy.



How to engineer for a bumpy road and at the same time for a brand-new highway? How to continue to reduce weight, avoid overdesign and compensate for new materials? Reliable structural durability test scenarios require accurate and dependable load assessment in real-life operating conditions and on proving grounds. Do you want to have insights into how to gain a precise understanding of loads that products will undergo during anticipated lifetime, capture customer usage and define customer profiles? How can you accelerate durability testing on proving grounds? How to maximize testing productivity for road load data acquisition? What methods translate road measurements to a test bench? All this will be part of the discussion topics.

We invite you for an informative and educational day covering the durability testing process and teaching best practices for road load data acquisition & processing. This seminar provides insights in how to design against fatigue, how to capture customer usage and how to set realistic targets and test procedures within the vehicle development. Best practices are shared by real application examples.

## Agenda

### AM : Road Load Data Acquisition and Processing Seminar

08:30 - 09:00

#### Registration

09:00 - 09:15

- Siemens PLM Software and LMS
  - Hybrid approach: Combine Test and CAE

09.15 - 10.15

- Overall Durability engineering process
- Milestones of fatigue
- Understanding basic concepts: strain, stress, damage and fatigue life

10.15 - 10.30

#### Break

10:30 - 12:30

- **Road load data acquisition**
  - Customer application case
- Sensors: Strain gauges, accelerometers LVDT, string pots, load cells, CANbus, GPS, Video.
- Customer correlation (CuCo)
  - Profiling of real world loading
  - Design/correlation of accelerated durability testing on proving grounds

12.30 - 14.00

#### Lunch



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## PM : Road Load Data Acquisition and Processing Seminar

<b>14:00 - 15:15</b>	<ul style="list-style-type: none"> <li>• <b>Load data processing and analysis</b> <ul style="list-style-type: none"> <li>• How to efficiently process your data               <ul style="list-style-type: none"> <li>○ Best practices in data analysis</li> <li>○ Customer application cases</li> </ul> </li> </ul> </li> </ul>
<b>15:15 - 15:30</b>	<b>Break</b>
<b>15:30 - 16:45</b>	<ul style="list-style-type: none"> <li>• <b>Test design/optimization/acceleration</b></li> <li>• "Road-to-rig" test design: translating vehicle testing into lab test procedures</li> <li>• Rig test optimization &amp; acceleration (incl. application cases)</li> </ul>
<b>16:45 - 17:00</b>	<b>Q&amp;A</b>

### Who should attend?

This is a must-attend event for engineers and managers challenged with:

- The durability of passenger car, truck, bus, off-highway vehicles or component, subjected to unpredictable customer use.
- Concern about predicting real life duty-cycle.
- Understanding operational loads and the resulting impact on product life or warranty costs.
- "Road-to-rig": translating Vehicle testing into lab test procedures.

### Practical Information:

**Dates & locations:**  
Friday, February 24th 2017  
Room no. MR223

BITEC Bangna  
88 Bangna Trad Road Bangna  
Bangkok 10260, Thailand

*In collaboration with:*

**ADT SYSTEMS**  
INNOVATION DRIVEN

### Registration:

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