



Agenda Structure Dynamics

AVL International Simulation Conference 2017

June 29, 2017

WORKSHOP PROGRAM STRUCTURE DYNAMICS – THURSDAY, JUNE 29, 2017

Introduction

08:30 Recent Developments and New Functionalities in AVL EXCITE™ Software

Durability & Lubricant Contacts

09:00 AVL EXCITE™ EHD/New Thermal Model within EHD+T

09:30 Modeling of Hollow Crankshafts for Accurate Strength and Bearing Analysis

10:00 Coffee Break

TestBed Influence, TVD Modeling and Electrification

10:30 Difference of Crankshaft Durability on Test Bed and in Vehicle Installation

11:00 Equivalent Modeling of TVDs in Frequency and Time Domain

11:30 Experience in Accurate Simulation-Measurement Comparison for Acoustic of an E-Machine

12:30 Lunch

Transmission Analysis with AVL EXCITE™

13:00 The new FlexGear Modeling Capability

13:30 Planetary Gear Set Modeling Hints

14:00 Durability of Gears and Transmission Components and Introduction in TCA Interface

14:30 Coffee Break

3D Ring, New Valve Train and Turbocharger

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| 15:00 | Status and Capabilities of the 3D Ring in AVL EXCITE™ v2017.1 |
| 15:30 | Valvetrain Overview on actual Release and its Capabilities |
| 16:00 | Capabilities of AVL EXCITE™ for Turbocharger Dynamic Simulation and Interaction with CFD Thermal Boundary Conditions |

Outlook

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| 16:30 | AVL EXCITE™ - Outlook |
| 17:00 | End of Workshop |

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The SIEMENS logo is in a teal, bold, sans-serif font.The MAGNA logo features a stylized black icon of a person or a machine part to the left of the word "MAGNA" in a bold, black, sans-serif font.The KISSSOFT logo has the word "KISSSOFT" in a blue, bold, sans-serif font. Below it, in a smaller font, is the tagline "Calculation programs for machine design".The SinusPro logo features the word "SinusPro" in a bold, sans-serif font. "Sinus" is black and "Pro" is red. A red arc is drawn over the text, and there are horizontal lines below it.The CPU 24/7 logo has the text "CPU 24/7" in a bold, black, sans-serif font. To the right of the text is a graphic of five horizontal bars of increasing length, colored from red to yellow.The rescale logo features a stylized icon of a cloud with a gear-like shape inside, followed by the word "rescale" in a lowercase, sans-serif font.

FOR FURTHER INFORMATION PLEASE CONTACT:

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