

SHORT COURSE (N. 1) / 21 June, 2008

'Structural Analysis in Vehicle Engineering

An Introduction to Measurement Techniques and Numerical Simulation with Examples for Standard Applications in Car Development'

ACE-X 2009 / Rome, Italy / from 22-23 June, 2009



3rd International Conference on
Advanced Computational Engineering and Experimenting

SHORT COURSE (N.1): 'Structural Analysis in Vehicle Engineering

An Introduction to Measurement Techniques and Numerical Simulation with Examples for Standard Applications in Car Development'

Prof. Dr. -Ing. M. Merkel (Lecturer)

Announcement:

Date 21 June / Time: 8.00-11.00

Introduction:

- Customer & Legal Requirements
- Vehicle Development Process
- Virtual Product Development
- Analyses
 - on different system levels: full vehicle, subsystems, components
 - with different methods: numerical simulation, physical testing
- Interaction between CAD (Computer Aided Design), CAE (CA Engineering) and CAT (CA Testing)

Main Topics:

- Static Analysis
- Fatigue/Durability
 - Basics:
 - FEM Based Analysis
 - Application to Body and Chassis Parts
- NVH
 - Structure born and airborne noise
 - Substructuring technique
 - Modal analysis
 - Transfer path analysis
- Safety

IMPORTANT DATES:

- ✓ Abstract Submission Deadline 27 March
- ✓ Notification of Acceptance 03 April
- ✓ Early Bird Registration 17 April
- ✓ Accommodation Reservation 20 April
- ✓ **Short course 21 June**
- ✓ ACE-X 2009 22-23 Jun 2009

A CD with slides and certificate of attendance will be given to all participants!

Registration for this course can be done under: <http://www.ace-x2009.com/register.html>

More information is available through:

- The web page of the conference www.ace-x2009.com
- Prof. Dr. -Ing. M. Merkel Markus.Merkel@htw-aalen.de