



Programm Program

Stand 09.04.2010 / As of Apr. 9, 2010

Donnerstag, 22. April 2010 / Thursday, April 22, 2010

- 08:30 Anmeldung / *Registration*
- 09:30 Begrüßung / *Welcome*
- 09:45 **Acoustic simulation at Daimler Trucks - Virtual transfer path analysis**
R. Visser, Daimler AG
- TMF analysis with visco-plastic material behavior on the example of a grey cast cylinder head**
U. Flüeler, FIAT Powertrain Technologies
- Dynamic simulation in mechanical engineering - Possibilities and limits of the Finite Element Method**
A. Melchinger, INDEX-Werke GmbH & Co. KG Hahn & Tessky
- 11:00 Kaffeepause / *Coffee break*
- 11:30 **New features in PERMAS - Overview on PERMAS Version 13**
R. Fischer, INTES GmbH
- 12:30 Mittagessen / *Lunch*
- 14:15 **Status of VisPER - Overview on VisPER Version 2**
O. Sommer, science + computing AG
- PERMAS and VisPER optimization case studies of HVAC parts during the ProGRID project**
D. Links, Behr GmbH & Co. KG
- 15:30 Kaffeepause / *Coffee break*
- 16:00 **Simulation of frictionally engaged assemblies under periodic loads**
W. Herter, ZF Friedrichshafen AG
- Thermomechanical analysis of an exhaust turbocharger housing with PERMAS**
C. Oberste-Brandenburg, A. Klein, A. Schäffler, BorgWarner Turbo Systems Engineering GmbH; M. Klein, INTES GmbH
- Breakthrough in high performance engine analysis - Gasket elements in contact analysis**
M. Ast, S. Hüeber, M. Klein, INTES GmbH
- 18:00 Empfang und Abendessen am Konferenzort / *Reception and dinner at venue*

Freitag, 23. April 2010 / Friday, April 23, 2010

- 09:00 **Weight optimization of a gear wheel considering the manufacturing process and cyclic symmetry**
U. Heiselbetz, Daimler AG
- Two different approaches for topology optimisation in a mechatronic context**
C. Ballauf, G. Leuck, Siemens Linear Motor Systems
- Advanced optimization solvers - Overview and applications**
D. Diehl, INTES GmbH
- 10:15 Kaffeepause / *Coffee break*
- 10:45 **Dynamic analysis of components with flexible rotating fans**
A. Boersma, T. Heckenberger, W. Kühnel, D. Links, Behr GmbH & Co. KG
- Numerical design of dynamically highly loaded gasoline chain saws and power tools**
W. Ganzert, ANDREAS STIHL AG & Co. KG
- Modelling of launchers' solid propellant in structural dynamics analysis**
X. Kerbrat, O. Finkler, Astrium Space Transportation
- EXPAMTION: EXperimentation of numerical simulation facilities shared by the mechatronics design supply chain**
M. Henner, Ph. Goge, Valeo Engine Cooling; J. Marchesini, INTES France
- 12:30 Mittagessen / *Lunch*
- 14:00 **Fluid-structure-acoustic simulation of air intake systems**
C. Feuchter, R. Handel, A. Enderich, MAHLE Filtersysteme GmbH
- Interior noise simulation of a sport utility vehicle**
D. Vidal, Intes GmbH
- 15:00 Schlußwort / *Final remark*
- 15:15 Kaffee / *Coffee*
- 15:45 Ende der Konferenz / *End of conference*