



Program

As of Jan. 12, 2024

Thursday, April 25, 2024

- 08:30 Registration
09:15 Welcome
09:30 **INTES 1984 - 2024: 40 Years of Innovation and Service**; R. Helfrich, INTES GmbH
From Ariane 4 to Ariane 6: Dynamics with PERMAS
M. Sauzay, K. M. Ma, B. Para, B. Petitjean, Ariane Group, Les Mureaux, France
Advanced Engine Cooling Module Simulation
F. Luneau, L. Legot, Valeo Thermal Systems, N. Rannou, INTES France
10:55 Coffee break
11:20 **PERMAS V20, General Overview**
S. Hüeber, INTES GmbH
Advances in MLDR: Performance and Applications; T. Willerding, INTES GmbH
12:30 Lunch
13:50 **Finite Element Analysis of Gear Shift Forks in Truck Applications Taking into Account Elastic-Plastic Material Behavior**
Dr. C. Wehmann, J. Michy, H. Fussenegger, Daimler Truck AG
Optimization of a High Voltage Battery Pack Housing
M. Dahlbokum, FPT Arbon
Prediction of the Vibro-Acoustic Behavior with PERMAS of a Reduced-Scale Propeller Subjected to Turbulent Boundary Layer Excitation
J.-B. Chassang, F. Chevalier, NAVAL GROUP, Cherbourg, France.
The Optimal Connection by Spot Welding for the IPU (Intelligent Power Unit)
T. Okano, Honda Motor Co., Ltd, M. Shimozono, INTES Japan K.K.
15:30 Coffee break
16:00 **CAD Integration of PERMAS Topology Optimization**; C. Wulf, INTES GmbH
Design by Simulation: Application to a Space Rocket
W. Hanbury-Webber, C. Grand, G. Ibrahim, R. Girardon, LATITUDE, Reims, France
Dynamic Contact Analysis based Fatigue Assessment of Vehicle Components and Body Structures
M. Breitfuss, Dr. O. Grieshofer, Engineering Center Steyr GmbH & Co KG, St. Valentin, Austria
Integrated Fatigue Analysis in PERMAS
E. Heinemeyer, INTES GmbH
17:40 Visit of Mercedes-Benz Museum
19:15 Social Event

Friday, April 26, 2024

- 09:00 **Assembly-Based Simulation with PERMAS and Meshparts**
A. Dadalau, Meshparts GmbH
Complex Contact Analysis of Rotational Mechanism Using PERMAS
A. Yao, Numeritec Inc., M. Sheh, INTES
Bolt Analysis used in CNPE
China Nuclear Power Engineering Co., Ltd, Q. Liu
Nonlinear Dynamic Simulations of Automotive Component undergoing Vibration Loadings
E. Czerlunczakiewicz, M. Majerczak, Valeo Thermal Systems, N. Rannou, INTES France
10:40 Coffee break
11:05 **A new Simulation Workflow Toolchain**
R. Ernst, G. Nötzel-Steidle, M. Klein, INTES GmbH
Launcher Dynamic Simulation involving Local Non Linearities
B. Petitjean, ArianeGroup, Les Mureaux, France, L. Dastugue, INTES France.
PERMAS and Simdrive3D a New Interface between FEM and MBS
B. Zickler, FPT Arbon
Computation of the Underwater Radiated Noise of a Patrol Vessel with PERMAS
P.-H. Ernault De Moulins, NAVAL GROUP, Lorient, France.
12:45 Lunch
13:45 **PERMAS Solver: A Key Player in Considering Uncertainties in Electric Drive Simulations**
K. Drazdil, J. Otta, ZF Friedrichshafen AG
Verification of Static Failure Analysis-Test Correlation and Development of Analytical Techniques
C. Ilhwan, Hyundai Motor Company
Utilizing CAE Methods in Engineering Education: A Case Study on the Structural Dynamics of a Multistory Building Model
Prof. Dr.-Ing. S. Rützel, H. Walch, Heilbronn University of Applied Sciences
FEA Validation of Test Results for the Installation of Impervious Liners at Landfill Sites and Tailings Storage Facilities
R. Minaar, ASM Ltd., SA
15:25 Final remarks
15:30 Fairwell-Coffee and Tombola
16:00 End of Conference