

Press Release 2/2013

DYNAmore is involved in numerous research and development projects

Stuttgart, 14th May 2013 – DYNAmore GmbH is a medium-sized company for FEM engineering services. Due to the company's affinity to develop fundamentally-orientated methods in simulation technology, DYNAmore is often a contact partner for publicly-sponsored projects. In most cases, these are methodical development projects for the automotive, aerospace and automation industries, which are carried out in collaboration with universities, research institutes and other companies. In terms of software development, DYNAmore participates in research programs which specifically support innovative software projects, for example in the fields of structural analysis or fluid-structure interaction. Starting this year, DYNAmore will be collaborating in four long-term research and development projects that address material models and manufacturing process chains.

Following this, the ZIM project "Swim-RTM" aims at the development of algorithms and tools to design the manufacturing process of structural components based on resin transfer molding (RTM).

The research project "T-Pult" is sponsored by the Federal Ministry of Education and Research (BMBF) and investigates simulation techniques to capture the behavior of pultruded fiber composites using thermoplastic materials. In this regard, the developed software tools will be capable of reproducing the manufacturing process chain as well as the usability of the manufactured materials during short-duration dynamic applications.

Moreover, DYNAmore is also involved in two European research

projects sponsored by the Research Fund for Coal and Steel (RFCS). The goal of the first project "Enfass" is to further exploit existing potentials regarding the manufacturing process and usage of advanced high strength steel (AHSS) for automotive construction as well as to enable a broader and more reliable application with the aid of numerical simulations. In the second project "Twip4EU", the objective is to develop a new constitutive model to simulate materials with twinning-induced plasticity (TWIP).

On this subject, Dr. André Haufe, Head of Process Simulation at DYNAmore GmbH, says: "The fact that we cooperate closely with our customers and partners in research projects with defined development goals enables us to face current simulation challenges strategically. In particular, the strong common desire of all project partners to find cost-effective, reliably-predictable solutions has not only shown to be a driving force in the past but also proved to be an effective way of further developing our software tools. In the projects mentioned above, the development trend in the automotive industry towards more lightweight models with similar or even improved rigidity and crash performance is also becoming more apparent. As a competent contact partner for simulation issues, we feel obliged to provide support for our customers in this respect. It is both our desire and duty to generate the required resources."

The name DYNAmore stands for excellent support when it comes to the solution of generally non-linear physical problems. The product portfolio contains the finite-element software LS-DYNA, the pre- and post-processor LS-PrePost and the optimization software LS-OPT, as well as numerous FE models for crash simulation (dummies, barriers, pedestrians, human models, etc.). Core issues include support, sales, training, engineering services, software development and system integration. DYNAmore is one of the top addresses for pilot and development projects for simulating non-linear dynamic problems.

For more information, please contact

DYNAmore GmbH

Industriestr. 2, D-70565 Stuttgart, Germany

Tel.: +49 (0) 7 11 - 45 96 00 – 0

Fax: +49 (0) 7 11 - 45 96 00 - 29

e-mail: info@dynamore.de

Internet: www.dynamore.de