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 The extensions of the employees stay unchanged.
 Substitute 0 by their extension.

simcon news



Events:

25. June 2010

14. Engelskirchener Plastics

Technology Day
 Engelskirchen, GER



Seminar:

CADMOULD® 3D-F RAPID

13. April 2010 Weimar

Location: Park Inn Hotel
 Kastanienallee 1
 D-99438 Weimar

27. Oktober - 03. November 2010
 K2010

International Trade Fair No. 1
 for Plastics and Rubber
 Hall 11, Booth F21
 Trade Fair Düsseldorf, GER



14. Technology Day Konstruktionsbüro Hein

On the 26th of February 2010 the 14th Technology Day for product development, mould making and injection moulding was organized with great success by Konstruktionsbüro Hein GmbH in Neustadt.

About 500 participants and 70 exhibitors from Germany and neighbouring countries participated this year. Of course, also **simcon** took part in the exhibition.

The focus of the presentation of **simcon** was the new module **CADMOULD® 3D-F 2K & INSERT**, which Dr. Filz explained to the participants in his lecture "Simulation of 2K parts".



Picture: TT Hein, Exhibition hall



25. International Colloquium, IKV

On the 3rd and 4th of March 2010 **simcon** together with a total of 40 other exhibitors was present at the IKV Colloquium. About 500 guests attended this year's Colloquium held at the Eurogress, Aachen.

The main presentation for **simcon** together with Dr. Gierth Engineering mbH, Aachen, was the new program **VARIMOS** *.



Picture: Hendrik Brixius, **simcon**-booth

* For more details about **VARIMOS** see the technical report below.

VARIMOS – Fast and cost-saving virtual optimization of part and process



The design of injection moulded parts with the aid of simulation leads to significant improvements of the development process. Obstacles during the processing of the part can be identified and corrected already during the design phase in the CAD model. Necessary modifications are done in the virtual part, which is more cost-saving and can be performed more easily and faster compared to changes in steel.

Robust injection moulding process against changes

The idea of the new product **VARIMOS** is to expand and improve the possibilities of injection moulding simulation. The target is to optimize both the injection moulded part and the injection moulding process on a virtual level using **VARIMOS**. This results not only in a part meeting all defined quality criteria but also in a process, which is economically optimized leading to a maximum of productivity. Furthermore the injection moulding process becomes robust against changes of the production conditions such as variations of material properties, mould wear, ambient temperature, etc.



VIM-Project: Optimized part from the company Ghepi, Cavriago, Italy

Optimization by DOE

VARIMOS works with a virtually performed Design of Experiment (DOE) and its virtual execution. During these simulated experiments different process and part parameters are varied such as the local wall thickness distribution and the gating point. These different sets of parameters are simulated using **Cadmould® 3D-F**. Afterwards the simulation results are evaluated using a mathematical optimizer determining one set of parameters, which is optimal concerning quality and efficiency.

During the development of **VARIMOS** the core competence of **Simcon** in the area of simulation was combined with the know-how of Dr. Gierth Ingenieurgesellschaft mbH, Aachen, in the area of process optimization. The result of this cooperation is a today unique program for the virtual and real part and process optimization for the economical production of injection moulded parts.

VARIMOS is available with immediate effect

If you have questions or if you are interested please contact us.



Injection moulding simulation

Tips & Tricks

Save storage space

To save storage space the intervals, to which results are selected, can be reduced.

Under
 Simulation->
 Options->
 Snapshot filling or Packing

the timing can be set manually. There are three options to choose from. Standard is automatic. Additionally constant distances and / or certain (interesting) time can be selected.

VARIMOS is based on results of the research project „VIM“, which was funded by the European Commission. VIM was a cooperation of research partners from 10 European countries.