

**Press Release**

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**User Meeting**  
**SIGMA Engineering GmbH hosts the third SIGMASOFT®**  
**International User Meeting**

**Hamburg is the place to be – from 7<sup>th</sup> to 9<sup>th</sup> of November, SIGMASOFT® users from all over the world will get together in Germany to exchange experiences and learn about the newest innovations in Virtual Molding.**

*The third SIGMASOFT® International User Meeting takes place in Hamburg from November 7<sup>th</sup> to 9<sup>th</sup> 2017. Users were asked to contribute – and many delivered. Presentations about various aspects such as material characterization and the new virtual DoE and Autonomous Optimization will form the core of the meeting. Additionally, one of our users who achieved significant savings on their projects with the help of SIGMASOFT® Virtual Molding will be rewarded with the new SIGMA Award.*

**Aachen, October 17<sup>th</sup>, 2017** – Five years ago, SIGMA Engineering GmbH brought its international customers together in one place for the first time. Since then the user meetings have always been a story of success – and this year will surely not be an exception. Featuring the motto “Optimization from Part to Process”, this year’s user meeting presents a couple of innovations making SIGMASOFT® Virtual Molding an even more profitable tool to improve injection molding processes. By bringing users from all over the world and the experts of SIGMA Engineering GmbH together, we hope to further optimize the applications SIGMASOFT® Virtual Molding offers, in line with our customer’s needs.

There are a couple of updates coming this fall which will be presented and discussed about in Hamburg. The new SIGMA Hotrunner database, which SIGMA developed in cooperation with **GUNTHER Heisskanaltechnik GmbH, Germany**, will be introduced in a presentation by **Dipl.-Ing. Marco Kwiatkowski, from GUNTHER**, explaining the possibilities the newly created database adds to the software.

However, the biggest update will surely be the release of the major patch 5.2.1. **Dr.-Ing. Silke Allert, from MAGMA Giessereitechnologie GmbH, Germany**, gives information about new functionalities like a quick flow solver and many tools providing assistance for an easy and quick project set-up. And of course, participants of this year's user meeting will get an exclusive look at this new update.

How using the Design of Experiments can help to optimize the part design will be the topic of the presentation **Tobias Wiebel, from BARLOG Plastics GmbH, Germany**, is going to give. He will show the efficiency SIGMASOFT® Virtual Molding adds to a project via CAE and FEA simulation by the example of a smartphone holder. **Ing. Joachim Kruder, from Rico Elastomere Projecting GmbH in Austria** is going to show how Virtual Molding can help to reduce iteration loops and how its output data is used to calculate the function of the end product, leading to virtual elimination of the need for further iterations. **Yinsheng Zhang, from ExxonMobil Asia Pacific Research and Development Company, Ltd., China**, will present his study on shrinkage and warpage of injection molded polypropylene parts. Especially regarding crystalline and semi-crystalline materials, which are particularly prone to shrinkage in injection molding processes, SIGMASOFT® can help to predict shrinkage and warpage and to achieve a precise mold design. Following an innovative approach, Schneider Electric utilizes SIGMASOFT® to simulate Epoxy injection molding processes. **Emmanuel Aulagner, from Schneider Electric, France**, will share his company's experiences following this approach and provide an abstract over Schneider Electric's investigations concerning this matter.

Having users working with different materials, we try to serve all of them by having parallel sessions with emphasis on these materials. Therefore there will be presentations exclusively featuring the requirements of thermoplast-, elastomer- and MIM-molders. For instance, **Dr. Achim Wendt, from Element 22 GmbH, Germany**, will talk about his gathered experience in using SIGMASOFT® for simulating metal injection molding of titanium and titanium alloys. In the meantime, **Gernot Dufner, from DUFNER.MDT GmbH, Germany**, provides some insight about how the potential of material characterization with SIGMASOFT® can be expanded and exploited, **Dr. Boštjan Šumiga, from Iskra Mehanizmi, Slovenia**, explicates the implementation of SIGMASOFT® Virtual Molding in the everyday work in his company and **Prof. Micael Baudin, from SECO TOOLS AB, Sweden**, will give a presentation about the optimization of the ingate geometry in complex MIM-cavities.

After all, one exciting question will remain unanswered until the event in Hamburg: **Who will win the first SIGMA Award?** Many interesting projects contended for the price, but only one will win the award and, thus, receive a discount on the next software update or maintenance. The event is exclusive and free of charge for SIGMASOFT® users.

SIGMA ([www.sigmasoft.de](http://www.sigmasoft.de)) is sister company to MAGMA ([www.magmasoft.de](http://www.magmasoft.de)), the world market leader in casting process simulation technology based in Aachen, Germany. Our SIGMASOFT® Virtual Molding technology optimizes the manufacturing process for injection molded plastic components. SIGMASOFT® Virtual Molding combines the 3D geometry of the parts and runners with the complete mold assembly and temperature control system and incorporates the actual production process to develop a turnkey injection mold with an optimized process.

At SIGMA and MAGMA, our goal is to help our customers achieve required part quality during the first trial. The two product lines – injection molded polymers and metal castings – share the same 3D simulation technologies focused on the simultaneous optimization of design and process. SIGMASOFT® Virtual Molding thus includes a variety of process-specific models and 3D simulation methods developed, validated and constantly improved for over 25 years. A process-driven simulation tool, SIGMASOFT® Virtual Molding provides a tremendous benefit to production facilities. Imagine your business when every mold you build produces required quality the first time, every time. That is our goal. This technology cannot be compared to any other simulation approach employed in plastics injection molding.

New product success requires a different communication between designs, materials, and processes that design simulation is not meant for. SIGMASOFT® Virtual Molding provides this communication. SIGMA support engineers, with 450 years of combined technical education and practical experience, can support your engineering goals with applications specific solutions. SIGMA offers direct sales, engineering, training, implementation, and support, by plastics engineers worldwide.

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