



MUSIC Public Training on Sensoring, Process Data Management and Process Simulation

An innovative network to exploit the High Pressure Die Casting potential

October 27th, 2014

Hotel Parchi del Garda, Pacengo del Garda (Verona) - Italy

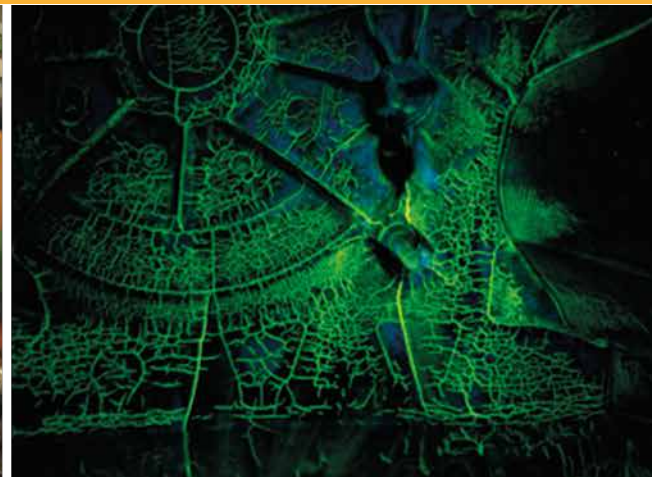
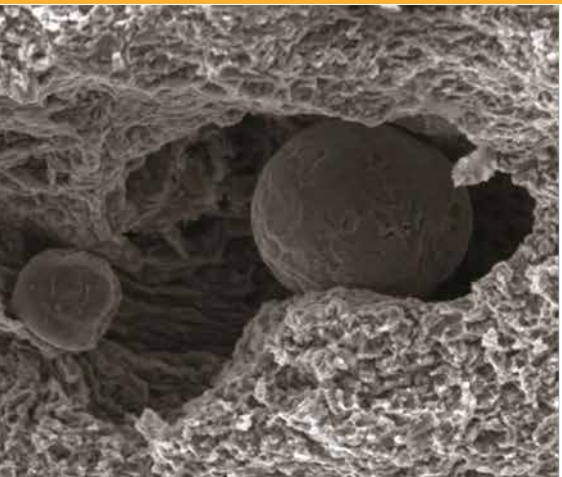
14:00 – 18:00

The MUSIC Training Course

on sensing, process data management and process simulation is the first open public event in which the project can present its major achievements and results up to now. After a quick project introduction, this training session is mainly dedicated to an up-grade in product and process requirements and in tooling & sensing device, especially for HPDC processes. The idea behind this event is to promote an innovative monitoring network to get the most out of the HPDC manufacturing process, in terms of product quality and defects minimization, by better understanding and enhancing the single elements influencing the whole process. For this reason, the training will consist of a sequence of presentations focused respectively on: Product and process requirements

in relation to defect classification and Quality Maps; Impact of machine parameters in the production line; Die monitoring by means of advanced innovative sensors; Design of new generation dies, equipped with sensors and self-adaptive devices; Quality improvements thanks to lubrication and thermal monitoring systems.

The training course will offer the opportunity to release the first official publication collecting the MUSIC achievements and results of the research obtained up to now: "**The MUSIC guide to key-parameters in High Pressure Die Casting**".



Training Summary

- ♪ MUSIC project introduction
- ♪ Guidelines for process monitoring and product quality in HPDC
- ♪ Development of Process vs Quality Maps in HPDC
- ♪ Production line: selection of HPDC machine parameters
- ♪ HPDC Process control by advanced die monitoring
- ♪ Design of new generation dies, equipped with sensors and self-adaptive devices
- ♪ Improving quality of HPDC products by lubrication and thermal monitoring
- ♪ Round table and conclusions: the potential of innovative monitoring networks in HPDC

Tutor

Eng. Nicola Gramegna, **EnginSoft**
Prof. Franco Bonollo, **DTG** University of Padova
Eng. Martina Winkler, **HTW** University of Aalen
Eng. Uwe Gauermann, **Electronics GmbH**
Eng. Filippo Voltazza, **SAEN**
Eng. Luca Baraldi, **Motultech Baraldi**

Who should attend?

This initiative is mainly addressed to Manufacturing experts and end-users, that are daily involved the HPDC processes, looking for innovative solutions to improve products quality, optimizing resources and increasing production efficiency.

Registration

Registration is compulsory by email contacting Dr. Marisa Zanotti at m.zanotti@enginsoft.it

Maximum 30 participants due to the limited number of seats.

music.eucoord.com

