

MUSIC - Multi-layers control&cognitive System to drive metal and plastic production line for Injected Components

Due to the high number of process variables involved and to the non-synchronisation of the process control units, HPDC and PIM are most "defect-generating" and "energy-consumption" processes in EU industry showing less flexibility to any changes in products and in process evolution.

Therefore, the MUSIC is strongly aimed at leading EU-HPDC/PIM factories to cost-based competitive advantage through the necessary transition to a demand-driven industry with lower waste generation, efficiency, robustness and minimum energy consumption. The development and integration of a completely new ICT platform, based on innovative Control and Cognitive system linked to real time monitoring, allows an active control of quality, avoiding the presence of defects or over-cost by directly acting on the process-machine variables optimisation or equipment boundary conditions.



**FP7-2012-NMP-FoF-ICT Smart factories:
Energy-aware, agile manufacturing and customization;
Collaboration IP Project; Contract no. 314145**

Starting date: 1st September 2012

Duration: 48 months

Total Person Months: 936

Total costs: 9.302.070,00 €

EC funding: 6.135.000,00 €

Coordinator: Enginsoft S.p.A

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Smart Factories: Energy-aware, agile manufacturing and customization



Multi-layers control&cognitive System to drive metal and plastic production line for Injected Components

For High Pressure Die Casting and Plastic Injection Moulding

Contract no. 314145 - Collaborative IP project - FoF-ICT-2011.7.1

MUSIC Tour at EUROGUSS 2016 Nürnberg, Germany 12.-14.1.2016

Visit the MUSIC Project partners' booths and get acquainted with our research activities in the High Pressure Die Casting and Plastic Injection Moulding sectors

We suggest to attend also the following lectures, related to the MUSIC project and its achievements.

Tuesday, 12th January 2016

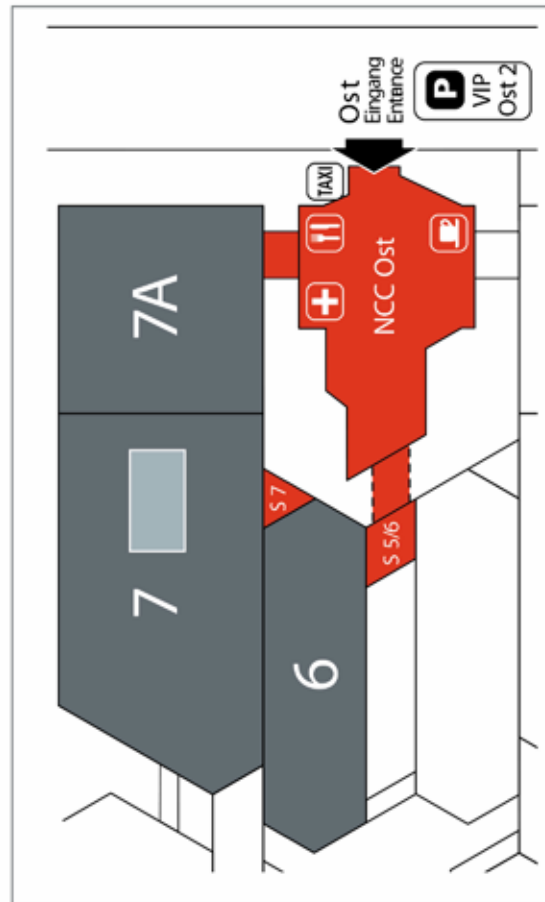
15:30 *Mehrschichtiges kognitives System zur Überwachung und Optimierung des Druckguss- und Spritzgussverfahrens / Multi-layers control & cognitive system to drive metal and plastic production line for injected component*
Nicola Gramegna | EnginSoft S.p.A., Padova (IT)

Wednesday, 13th January 2016

10:30 *Experimentelle und numerische Untersuchungen zur Vorhersage thermischer Ermüdungsrisse in Druckgusswerkzeugen / Experimental and numerical study for thermal fatigue appearance prediction in HPDC*
Borja Zabala | IK4 Tekniker, Eibar, Gipuzkoa (ES)

Thursday, 14th January 2016

11:30 *Korrelation von Prozessparametern mit Qualitätsmerkmalen bei Druckgussteilen / Correlation between process parameters and quality characteristics in aluminum high pressure die casting*
Martina Winkler | Hochschule Aalen



- EUROGUSS
- 16. Internationaler Deutscher Druckgusstag
16th International Die Casting Congress
- Service Services

EXHIBITING PARTNERS

Electronics GmbH

(Hall 7/7-509)

Leader manufacturer of process data management system for casting machines, high pressure die casting processes with regard to special sensors and process monitoring.

Oskar Frech GmbH + Co. KG

(Hall 7/7-325&328)

Leading manufacturer of hot and cold chamber die casting machines, die casting dies and automation equipment.

Baraldi s.r.l.

(Hall 7A/7A-616)

Producer of die casting lubricants and supplier of solutions for aluminum parts manufacturing.

RDS Moulding Technology S.p.A.

(Hall 7/7-506)

Company engaged in the construction of steel moulds and in the moulding of injected parts, aluminum and brass pressure die cast products.

Regloplas AG

(Hall 7/7-442)

Company specialized in the development and production of temperature control units.

MAGMA GmbH

(Hall 7/7-430)

Global supplier of solutions for the metal casting industry.

University of Aalen – GTA

(Hall 7/7-642)

Foundry Laboratory engaged in research and development activities in high pressure die casting with all alloys.

IFAM Fraunhofer Institute

(Hall 7/7-642)

Non-profit association carrying out research and development activities in casting technologies and the tracking and tracing of castings with embedded RFIDs.