



European Investment Casters' Federation



**IMERYS**  
TRANSFORM TO PERFORM

Technical Workshop for Foundry Engineers

# Process Materials for Tomorrow's Challenges

September 22-24, 2013

Palais des Congrès  
Bordeaux, France

Hosted by  
Imerys Foundry Materials Europe.



This workshop is designed for foundry process and quality engineers to inform them of the issues affecting the quality and price of process materials, and to give them the latest information on material developments. It will give them an opportunity to engage with foundry engineers from the industry to increase their knowledge and appreciation of investment casting.

Poor quality materials can cause inconsistency in casting performance with increases in rejections due to casting defects and dimensional variation. The consequences of using poor quality materials can affect the commercial prospects of investment foundries as customers lose confidence in the quality consistency of their suppliers.

Quality issues affecting process materials have their origin in the quality of raw materials and difficulties in the supply of basic materials. Such issues have affected wax pattern materials and refractory ceramics. These issues will be the subject of the presentations given by industry experts.

Also included in the technical sessions will be presentations on new materials in development which will be available to the industry. These developments have the potential to significantly increase the market for investment castings. Delegates will have the opportunity to meet with representatives from the material supply industries to obtain first hand information on emergent quality issues and on the opportunities offered by the new materials in development.

For companies supplying process materials, exhibition tables with posters will be available to display products and literature

Included in the workshop will be a factory visit to the Imerys Chamotte plant which will give engineers an insight into the extraction and processing of refractory materials.

## **Workshop Venue**

The workshop will be held at the Palais des Congrès, Bordeaux Lake. The Congress Centre is situated 15km from the airport.



## **Hotels**

**Pullman Bordeaux Aquitania:** please use attached booking form for a special rate.

**Mercure Bordeaux Le Lac:** book room using e-mail H0551-RD@accor.com and quote reference code ‘congres EICF’

# Workshop Programme

## Sunday September 22

19:00 Registration & Reception in Pullman Hotel

## Monday September 23

08:30 Registration & coffee

09:00 Welcome by EICF President and Imerys Director

**09:15 Introduction to Pattern material issues**  
(senior representative from wax industry)

09:30 Transparency of raw material characteristics and investment casting wax properties.  
Jörg Abraham: Romonta Bergwerks Holding AG

10:00 Characterisation of wax using DMA and DSC to predict injection Behaviour  
Grant Bradley: Remet UK

### 10:30 Coffee

11:00 Surface defects in the investment casting process and the relation to wax quality and control  
John Machiels: Paramelt B.V.

11:30 Benefits of a systematic approach to quality assurance and control  
Phil Hancock: Blayson Olefines

12:00 Developments in 3D printing materials for investment casting.  
Global TCT (Voxeljet): Kevin Smith

### 12:30 Lunch & exhibition.

**13:45 Introduction to refractory ceramic issues**  
(senior representative from refractory industry)

14:00 Development of rapid build binder systems

Bob Brown: Remet UK

14:30 Zircon - The re-emergence of a cost effective refractory

Patrick Hegarty: Mineral & Chemical Services

15:00 Advanced material solutions for the Investment Casting industry

Craig Freeman: Morgan Thermal Ceramics

### **15:30 Coffee**

16:00 Ecological trends in core materials and removal of cores without leaching

Ladislav Tomek : Lanik s.r.o.

16:30 New alumina binders for high stability investment casting slurries

Christoph Tontrup: Evonik Industries AG

17:00 Latest trends in refractory materials for prime and back up coats

Danilo Frulli: Imerys Foundry

17:30 Production processes for alumino-silicates.

Danilo Frulli: Imerys Foundry

### **20:00 Gala Dinner**

## **Tuesday September 24**

### **Visit to Imerys Chamotte refractory plant**

08:00 Depart to Imerys Clérac

09:30 Visit Clérac plant

11:30 Depart for St Emilion

12:30 Visit vineyard / wine tasting

15:00 Depart for Bordeaux Airport.

Further details from the secretary Julie Boyce , +44 1564 742603, [julieboyce@eicf.org](mailto:julieboyce@eicf.org)  
Registration forms can also be downloaded from [www.eicf.org/events](http://www.eicf.org/events)