



EICF 32<sup>nd</sup> International Conference & Exhibition  
Programme Content



Investment Casting on the way to Sustainability

12 to 15 of May 2024

Città della Scienza  
Napoli (Italy)



9:00 - 9:05 |  
Plenary



Philippe Hoste  
**Conference Welcome**

Conference Welcome by EICF Chairman

9:15 - 9:30 |  
Plenary



Fabio Zanardi  
**Portrait of Italian Foundry Industry**

Review of the Italian foundry industry

9:30 - 10:25 |  
Plenary



José Antonio Calvo Maguregui  
**Key Note : Sustainability as a Key Competitive Factor**

A key note by specialist in Sustainable Development Goals, Mr. José Antonio Calvo Maguregi

10:30 - 11:30  
Exhibition



Coffee Break  
**Coffee Break & Exhibition**

11:30 - 11:50 Track  
1 Session 2 |  
Market



Carlos Olabe  
**Europe IC Market Review**

IC Market Studies from Europe

11:50 - 12:10 Track  
1 Session 2 |  
Market



Joseph Fritz  
**North America IC Market Review**

IC Market Studies from North America

12:10 - 12:30 Track  
1 Session 2 |  
Market



Yun Zhang  
**China IC Market Review**

IC Market Studies from China

12:30 - 12:50 Track  
1 Session 2 |  
Market



JFS  
**Japan & Asia IC Market Review**

IC Market Studies from Japan, Korea & Taiwan

12:50 - 13:00 Track  
1 Session 2 |  
Market



Joseph Fritz  
**World Market wrap up**

Consolidated World IC Market Studies

11:30 - 12:00 Track  
2 Session 3 | Shell  
Systems



Dr. Gavin Dooley

**Slurry life – What is it? How is it measured? and what insights can we gain from advance testing methods**

Remet UK

12:00 - 12:30 Track  
2 Session 3 | Shell  
Systems



Dr. Aliz Pinto

**Study of Prime Slurry - Wax Interactions through Contact Angle Analysis**

Safran

12:30 - 13:00 Track  
2 Session 3 | Shell  
Systems



Dr. Daniel Bernal

**Microstructural and compounds evolution of Suspended Slurry for several sands**

Mondragón University & Ransom & Randolph

### Lunch & Exhibition



13:00 - 14:15  
Exhibition

14:15 - 14:45 Track  
1 Session 4 |  
Circular Economy



Teresa Rey

**Investment casting shell raw materials - Possibilities and challenges connected with sustainable handling of raw materials and shell recycling**

Imerys

14:45 - 15:15 Track  
1 Session 4 |  
Circular Economy



Dr. Moritz Weiß

**True circular economy for ceramics in investment casting**

Fastcast

14:15 - 14:45 Track  
2 Session 5 |  
Resources  
Optimization



Aaron Phips

**A Comprehensive look in the reduction of material, defects, and resources through Improved processes in the wax room**

MPI

14:45 - 15:15 Track  
2 Session 5 |  
Resources  
Optimization



Mag. Michael Weissenbacher

**Possibilities and challenges connected with sustainable handling of raw materials and mining areas**

Imerys

15:15 - 15:45  
Exhibition



Coffee Break

**Coffee Break & Exhibition**

15:45 - 16:15 Track  
1 Session 6 |  
Simulation



Vlastimil Kolda

**The issue of prediction of defects, deformation and macrostructure of a cast blade with a ceramic core**

ESI Group

16:15 - 16:45 Track  
1 Session 6 |  
Simulation



Dr. Jürgen Jakumeit

**Digital twins for investment casting process chain optimization: wax removal in a steam autoclave**

Access Technology

15:45 - 16:15 Track  
2 Session 7 |  
Process Technical  
Assessment



Dr Hamid Ahmad Mehrabi

**Comparative analysis of Investment Cast Inconel 625 with Atomic Difusion Additive Manufacturing**

University of Sunderland

16:15 - 16:45 Track  
2 Session 7 |  
Process Technical  
Assessment



Katsumasa Chiba

**In situ observation of filling and prediction of blowholes in counter gravity low-pressure casting of titanium aluminides**

Daido Steel

9:00 - 9:30 Track 1  
Session 8 |  
Sustainability



Philippe Hoste

**The approach from a SME for a better sustainability in investment casting**

Castingspar Group

9:30 - 10:00 Track  
1 Session 8 |  
Sustainability



Dr. Pam Murrell

**A UK perspective on the transition to net zero - what are the challenges and opportunities for the castings industry?**

CMF

10:00 - 10:30 Track  
1 Session 8 |  
Sustainability



Iñaki Vicario

**Vacuum precision investment casting furnace designs with the aim of sustainable operation and extended machine life**

Consarc Engineering

9:00 - 9:30 Track 2  
Session 9 | Energy  
Saving



Dipl.-Ing. Erik Hepp

**Strategy for Energy and Cost-Efficient Investment Casting Technologies by Using Virtual Experimentation**

Magma

9:30 - 10:00 Track  
2 Session 9 |  
Energy Saving



Dr. David Cheng

**Application of Natural Frequencies in Shell Removal Process**

FS Precision

10:00 - 10:30 Track  
2 Session 9 |  
Energy Saving



Carel Wegman

**Slurry Formulation and the Impact they have on Drying Times/Cost**

Ransom & Randolph

10:30 - 11:30  
Exhibition



Coffee Break

**Coffee Break & Exhibition**

11:30 - 12:00 Track  
1 Session 10 |  
Innovation



M.Sc. Michael Heuser

**Cast Coil - Investment casting as an opportunity for sustainable electric drives**

Cast Coil

12:00 - 12:30 Track  
1 Session 10 |  
Innovation



Dr. Antonio Licciulli

**Freeze gelation, a green process for the production of silica cores for investment casting**

Salentec

12:30 - 13:00 Track  
1 Session 10 |  
Innovation



Professor Dr. Jianxin Zhou

**Temperature field simulations during superalloy directional solidification using GPU-based parallel algorithm**

Huazhong University of Science and Technology

11:30 - 12:00 Track  
2 Session 11 | 3D  
Printing I



Patrick Dunne

**Evolution and advancements in Stereolithography (SLA) investment casting patterns**

3D Systems

12:00 - 12:30 Track  
2 Session 11 | 3D  
Printing I



Richard Gaignon

**Eco-Friendly Investment Casting: Technical Ceramic 3D Printing Leads the Way**

3D Ceram

12:30 - 13:00 Track  
2 Session 11 | 3D  
Printing I



Isabel Potestio

**Lithography-based Ceramic Manufacturing of Complex and Precise Ceramic Casting Cores and Shells for Investment Casting Applications**

Lithoz

**Lunch & Exhibition**



13:00 - 14:15  
Exhibition

14:15 - 15:00 EICF  
ACADEMY | Plenary



Dr. Krutis

**A join endeavor for knowledge and skill enhancement - EICF IC Manufacturing**

Brno University of Technology - Faculty of Mechanical Engineering  
Azterlan - Metallurgy Research Centre

15:30 - 16:00 Track  
1 Session 12 |  
Standardization &  
Sustainability



Austin Scheer

**Improvements in service life of ceramic melt containers and effects on sustainability**

Zircoa

16:00 - 16:30 Track  
1 Session 12 |  
Standardization &  
Sustainability



Mark White

**Tensile Bar Castings**

Impro

16:30 - 17:00 Track  
1 Session 12 |  
Standardization &  
Sustainability



Mark White

**Surface Finish - Requirements and Inspection**

Impro

15:30 - 16:00 Track  
2 Session 13 | 3D  
Printing II



John N. Stuecker

**Advances in Filtration Methods for Investment Casting Process via 3D Printing and CFD**

Robocasting

16:00 - 16:30 Track  
2 Session 13 | 3D  
Printing II



Dr.-Ing. Irina Sviridova

**Integrating Ceramic 3D Printing with Investment Casting Techniques**

Access Technologies

16:30 - 17:00 Track  
2 Session 13 | 3D  
Printing II



Rolf Tachibana

**Properties and casting tests of new ceramic material for 3D printing of cores and shells**

AGC Ceramics







9:30 - 13:30

### Industry Visit | Europea Microfusioni Aerospaziali



Industry Visit admission is subject to Terms & Conditions

You can find additional information at <https://www.eicf2024.org>

You can register [here](#)

