



European Investment Casters' Federation

Call for Papers

29th International Conference April 2018
Lectures, Suppliers Exhibition & Turbocharger Seminar

Casa da Musica
Porto, Portugal



22 - 25, APRIL 2018
Abstract Deadline : 30 October 2017

EICF 29th INTERNATIONAL CONFERENCE



Associação
Portuguesa de
Fundição

In cooperation with Portuguese Foundry Association APF

www.eicf.org

EICF 29th INTERNATIONAL CONFERENCE & EXHIBITION PORTO 2018

Europe's biennial Investment Casting International Conference and Exhibition is set to come to Portugal in 2018. The event will be held in Porto, 22-25 April 2018, at the "Casa da Musica" venue (House of Music Concert Hall) one of the best Concert Halls recently built in Europe with two main auditorium and other areas of the building that are very easily adapted for other activities as the Exhibition and networking spaces.

The combination of different lecture sessions based on specific topics of interest, the traditional Turbocharger Seminar and a Foundry Industry Visit, together with an Exhibition showing the latest developments in Foundry technology, will provide the ideal networking opportunity for delegates, suppliers and end-users. The latest trends and innovations in the technological evolution and supply capabilities associated to the Investment Casting Industry will be revealed.

WORKSHOP ORGANISERS

Porto 2018, International Conference and Exhibition is organized by the European Investment Casters' Federation (EICF) in cooperation with the Portuguese Foundry Association (APF). EICF is the leading trade association for Investment Casting in Europe. Its key functions are to represent the interests of the European IC community, and to promote IC technology throughout the world.

Further information about services and membership can be found at www.eicf.org

LANGUAGE

English will be the official language of the Conference



AUTHOR ABSTRACT DEADLINE

Please note: Abstracts submitted after 30 of October 2017 will not be accepted.

CONFERENCE PROCEEDINGS

Presentations from the conference technical sessions will be published in the Conference Proceedings Book and these will be made available to delegates at the time of the conference.

Past international conferences proceedings are also available through www.eicf.org



TO PRESENT A PAPER

Authors are invited to submit abstracts of papers for presentation in the "Technical Sessions of the Conference" or for the "Turbocharger Seminar Session". These should be of original and unpublished work. Commercialism in presentations, will not be permitted.

Papers shall be allocated to the session by the TCC (Technical Conference Committee). It is planned that technical sessions will each contain three or four presentations, with 20 minutes scheduled for each paper, plus 10 minutes for questions & discussion.

When assessing submitted papers, the TCC will consider:

- i. the originality and novelty of the subject
- ii. process & product improvement
- iii. scientific outcome of R&D
- iv. progress in industrial improvements
- v. process & product innovation
- vi. comparisons with competitive or enabling processes and products
- vii. advanced management practices

Presentations shall be submitted in Power Point format (*.pptx).

Papers submission should address either "Conference Technical Sessions" or "Turbocharger Seminar"

Abstracts to be sent to colabe@eicf.org

CONFERENCE THEME :

ADDRESSING TODAY'S AND TOMORROW'S INVESTMENT CASTING CHALLENGES

Abstracts can be submitted on the following topics :

- All stages of the Investment Casting process. (Wax ; Shell ; Melt ; Alloy ; Post casting Operations)
- Tooling (tool makers and associated technologies and innovations)
- Alloy Development, Solidification & Thermal Processing
- Evolution of DS & SX technology
- Evolution of Ti & Ti/Al casting
- Developments & Innovations in supporting materials for the Investment Casting manufacturing process
- Advances & Innovations in equipment for the Investment Casting manufacturing process
- The impact of Robotics and IT on the Investment Casting process
- Evolution and applications of Industry 4.0 on the Investment Casting process
- Status of complementary and /or competitive technologies (i.g. Additive Manufacturing)
- Supply of materials needed by the IC process. Status, risks, recycling alternatives
- Environmental Impact and Health & Safety issues
- Opportunities for Standardization and the impact of legislation affecting IC industry
- Supporting special processes (i.e Heat Treatment, NDT , Welding , Optical scanning, Contact inspection...)
- Advanced Management practices and their impact on Cost, Scrap & Time to Market reduction
- Evolution of Design requirements, specifications
- Evolution of Ceramic Core technologies and applications
- Addressing the skills gap to meet the future needs of the IC Industry

TURBOCHARGER SEMINAR THEME :

FUTURE REQUIREMENTS OF THE TURBO CHARGER

Abstracts can be submitted on the following topics :

- Advanced investment casting process for high volume Turbocharger wheel (TW) manufacture
- Developments & Innovations in supporting materials for TW manufacture
- Process control, big data management and Industry 4.0 compliance of TW casting
- Alloy developments for TW applications (inc high temperature turbocharger applications)
- Additive manufacture of TW
- Turbocharger market review and TW supply status

Conditions

The content of all abstracts will be refereed by the Technical Conference Committee, who reserve the right to reject a paper that does not meet its evaluation criteria. The inclusion of a paper in the final programme will also be dependent upon:

- i. the submission of the abstract and final presentation by the official deadlines
- ii. the receipt of the Licence to Publish Agreement by the deadline
- iii. the presenting author completing his/her delegate registration and payment by the deadline.

Note to Authors:

All costs relating to Conference participation, including registration (special rate for authors), travel accommodation and subsistence expenses, will be covered by the author.

Author Deadlines

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| Abstract Submission Deadline | 30 October 2017 |
| Programme Publication | 30 November 2017 |
| Presentation Submission Deadline | 30 December 2017 |
| Author Registration & Licence to Publish Agreement Deadline | 30 January 2018 |

Abstracts Structure

Abstracts Structure in the following format:

1. Abstracts should be no more than 250 words in length—not including Title, Author's name, or Company & Institution's name. This limit includes all text, spaces, and punctuation.
2. The text of the abstract should consist of a single paragraph. The abstract should be factual and informative. It should adequately summarize the work to be presented, including results and conclusions.
3. Take care to make sure that all italics, superscript, subscript, and any special characters are in place before submitting an abstract.

CALL FOR PAPERS

The EICF invites the global community of INVESTMENT CASTING, Foundries, Suppliers, Design Offices and OEM Customers, Turbocharger Design and Manufacturers, Universities, Research and Technology Organizations, Trade Associations.... to contribute, by submitting their Abstracts Proposals for the 29th International Conference and Exhibition & Turbocharger Seminar that will take place from 22 to 25 of April 2018 at the "Casa da Musica" venue in Porto (PORTUGAL)

Appreciation is given to all contributors

Abstracts to be sent to colabe@eicf.org

About Porto

Porto also known as Oporto is the second-largest city in Portugal after Lisbon and one of the major urban areas of the Iberian Peninsula. Located along the Douro river estuary in Northern Portugal, Porto is one of the oldest European centres, and its historical core was proclaimed a World Heritage Site by UNESCO in 1996. One of Portugal's internationally famous exports, port wine, is named after Porto, since the metropolitan area, and in particular the cellars of Vila Nova de Gaia, were responsible for the packaging, transport and export of the fortified wine. Porto is served by Francisco de Sá Carneiro Airport which is located in Pedras Rubras, Municipality of Maia, some 15 kilometres (9 miles) to the north-west of the city centre. The airport is a state-of-the-art facility. Porto was elected The Best European Destination by the Best European Destinations Agency. Porto is the most important city in the heavily industrialized northwest and many of the largest Portuguese corporations from diverse economic sectors are headquartered in the Greater Metropolitan Area of Porto, most notably, in the core municipalities of Maia, Matosinhos, Porto, and Vila Nova de Gaia.

Porto.

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PORTO 2018

