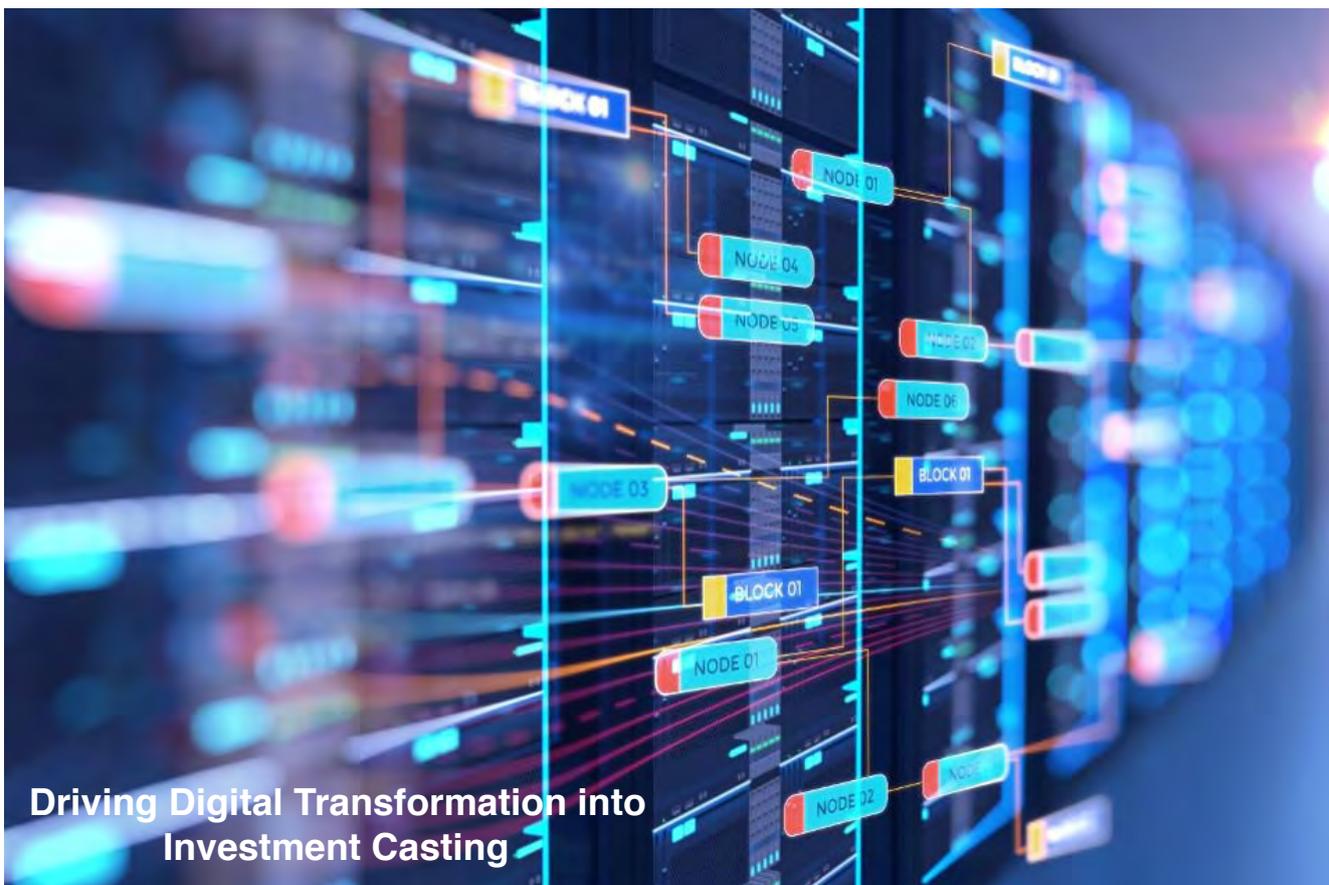


Call for Papers

EICF 30th International Conference May 2020
Lectures, Exhibition & Industry visit

Kongresskultur
Bregenz, Austria



**Driving Digital Transformation into
Investment Casting**

Conference Dates : 10 - 13, May 2020



EICF 30th INTERNATIONAL CONFERENCE & EXHIBITION, BREGENZ 2020

Europe's biennial Investment Casting International Conference & Exhibition is set to come to the four country region at Lake of Constance, specifically to the city of Bregenz (Austria). The event shall be held at Kongresskultur by the lake. The theme selected for the conference is "Driving Digital Transformation into Investment Casting". Investment Casting always at the edge of technology is facing the revolution which the digital transformation is bringing to the sector.

The impact, opportunities and the solutions that Digital Transformation brings shall be reviewed in depth. These shall be considered from the different perspectives of the manufacturing cycle, including the technical and managerial processes together with customer and supplier relationships .

Conference will include the 4th European Edition of the Turbocharger Seminar and the IC Market Review

CONFERENCE ORGANISERS

The conference is organized by the European Investment Casters' Federation (EICF). 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

VENUE

A multiple award-winning location Kongresskultur Bregenz. An innovative, conference centre in line with the conference's theme by the Lake of Constance



AUTHOR ABSTRACT DEADLINE

Abstract Deadline: 30th November 2019 (please note that abstracts submitted after the deadline will not be accepted).

CONFERENCE PROCEEDINGS

Presentations from the seminar technical sessions shall be published in the Seminar Proceedings Book / File and these will be made available to delegates at the time of the seminar.

Past seminar & 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 in the Turbocharger Seminar based on the event theme "**DRIVING DIGITAL TRANSFORMATION INTO INVESTMENT CASTING**". 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 or product improvement
- iii. scientific outcome of R&D
- iv. progress in manufacturing improvements
- v. comparisons with competitive processes and cast products
- vi. the standard of the paper and its consistency with the conference theme

Presentations shall be submitted in **PowerPoint format (*.pptx)**.

CONFERENCE THEME :

DRIVING DIGITAL TRANSFORMATION INTO INVESTMENT CASTING

Abstracts can be submitted on the following topics :

- The Impact of D.T. on all aspects of the Investment Casting.
- Evolution and complexity of component design in the light of D.T. possibilities
- Evolution and applications of Industry 4.0 on the Investment Casting process
- Using D.T for the design and manufacture of tooling for wax impression and ceramic core dies. Jigs and fixtures for pattern assembly and post cast operations.
- The manufacture of tooling including 3D printing for prototype and fast make manufacture.
- Pattern assembly and optimised gating design based on digital process analysis.
- Process control and quality analysis for high performance castings – including wax pattern, shell build, melting/casting processes.
- Application of robot technology to reduce process times, costs, and enhanced quality consistency.
- Application of D.T. in material developments – pattern, shell, alloy etc.
- Application of D.T. in casting furnace design and operation.
- Application of D.T. in dimensional and metallurgical inspection techniques.
- Training for experienced technologists and new recruits in D.T.
- Advanced Management practices and their impact on Cost, Scrap & reduced Time to Market.
- Advances in competitive industries including MIM, 3D printing etc.
- Supporting special processes (i.e Heat Treatment, NDT ,Welding , Optical scanning, Contact inspection...)
- Ceramic Cores technologies and applications

THE TURBO CHARGER AND THE DIGITAL TRANSFORMATION

Abstracts can be submitted on the following topics :

- Impact of DT for investment casting process high volume Turbocharger wheel (TW) manufacture
- Status of 3D printing and evolution within the TW application vs Investment Casting
- 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

Author Deadlines	
Abstract Submission Deadline	30 November 2019
Programme Publication	30 December 2019
Presentation Submission Deadline	28 February 2020
Author Registration & Licence to Publish Agreement Deadline	30 March 2019

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.

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 in requested format (*.pptx) by the official deadlines
- ii. the receipt of the Licence to Publish Agreement by the deadline
- iii. the presenting author completing his/her delegate Conference registration and payment by fixed deadline.

Note to Authors:

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

CALL FOR PAPERS

The EICF invites the community of INVESTMENT CASTING, Foundries, Suppliers, Design Offices and OEM Customers, Universities, Research and Technology Organizations, to contribute, by submitting their Abstracts Proposals for the EICF 30th International Conference & Exhibition, that will take place from 10 to 13 of May 2020 at Kongresskultur venue in Bregenz (AUSTRIA)

Appreciation is given to all contributors

Abstracts to be sent to colabe@eicf.org

About Lake of Constance & Bregenz

Lake Constance (German: Bodensee) is a lake on the Rhine at the northern foot of the Alps. Lake Constance is the third largest freshwater lake in Central and Western Europe in terms of surface area. The four-country region of Lake Constance with Germany, Switzerland, Austria and Liechtenstein, it is considered one of Europe's most innovative and at the same time most attractive regions. Future-oriented sectors such as biotechnology, automotive, communication technology and aerospace are there as are more than 30 colleges and universities.

Bregenz is the capital of Vorarlberg, the westernmost state of Austria. The city is on the eastern shores of Lake Constance, The city is on a plateau falling in a series of terraces to the lake at the foot of Pfänder mountain. It is a junction of the arterial roads from the Rhine valley to the German Alpine foothills, with cruise ship services on Lake Constance. It is famous for the annual summer music festival Bregenzer Festspiele (floating stage since 1949)

Source : Wikipedia

