

PRESS RELEASE

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„InCeight Casting C⁸“: Proceedings available free of charge, CfP for second congress ongoing

The International Congress of the Foundry Industry for intelligent Combining of Design, Casting, Computer Simulation, Checking and Cyclic Behavior for efficient Cast Components „InCeight Casting C⁸“ offers the opportunity to share experiences and knowledge of all the disciplines involved in the product life cycle of cast components. The aim is to develop a common understanding of the various requirements for high-performance and efficient cast products. From 6 to 8 March 2023 the second congress „InCeight Casting C⁸“ will take place in Darmstadt. The [Call for Papers](#) is open until May 15, 2022.

Interdisciplinary congress for high-performance cast components

The disciplines design and product development, structural durability, non-destructive component testing, foundry technology and simulation are on the agenda. Papers focus on linking methods and competencies from the various disciplines, with the aim of obtaining efficient, optimized cast components. Foundries, designers, users of cast components and experts in simulation, structural durability and non-destructive testing will benefit from this. The congress targets people from research & development, construction & design, production & quality assurance from mechanical and plant engineering, foundries and material processing, vehicle construction and power generation, and provides a view going beyond companies' own products and services, allowing consideration of other casting materials, new methods of component testing and dimensioning, and reliable designs optimized for lightweight construction.

The Proceedings of the first “InCeight Casting C⁸“ are now available free of charge: [InCeight Casting C⁸ – Fraunhofer-Bookshop](#)

Optimized cast products – lectures wanted!

Papers, preferably multidisciplinary, on the topic's product development, structural durability, foundry technology and simulation or nondestructive testing can be submitted by May 15, 2022. All papers will be published in a citable conference volume and open access after one year. More information www.inceight-casting.com

Redaktion

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Fraunhofer LBF in Darmstadt has stood for the **safety and reliability of lightweight structures** for more than 80 years. Today, with its expertise in the areas of structural durability, system reliability, vibration technology and polymer technology, the Institute provides solutions for three of the most important cross-cutting issues of the future: lightweight design, functional integration and cyberphysical mechanical engineering systems. The focus here is on solutions to social challenges such as resource efficiency and emission reduction as well as future mobility, like e-mobility and autonomous, networked driving. Comprehensive skills ranging from data acquisition in real operational field use to data analysis and data interpretation, in addition to deriving specific measures to design and improve material, component and system properties form the basis for this. Customers come from automotive and commercial vehicle construction, railway transport engineering, shipbuilding, aviation, machine and plant construction, power engineering, electrical engineering, medical engineering and the chemical industry. They benefit from the proven expertise of more than 400 employees and cutting-edge technology accommodated in more than 17,900 square meters of laboratory and experimental space.

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