

Call for papers

To make the participation to the Conference easier and efficient, both oral and poster sessions will be organised. According to these guidelines, the programme of HTDC Conference will be defined by the Scientific Committee. Authors, however, are encouraged to specify their preference for oral or poster session. The papers will be published in "La Metallurgia Italiana", the International Journal of the Italian Association for Metallurgy, which is indexed by ISI web of Science and Scopus, after standard peer review.

Prospective authors wishing to present papers are invited to submit a tentative title and an abstract of about 300 words (in English) to the Organising Secretariat (info@aimnet.it). The abstract should provide sufficient information for a fair assessment and include the title of the paper, the author's names and contact details (address, telephone and fax numbers and e-mail address) and the preference for oral or poster session. The name of the presenting author should be underlined.

There are two ways to submit papers:

- to fill in the form on the conference web site at <http://www.aimnet.it/htdc.htm>
- to send the requested information by e-mail to: info@aimnet.it

Deadlines

Submission of titles and abstracts: **30 October 2020**
Notification of acceptance: **30 November 2020**
Submission of full papers: **15 February 2021**
Peer review completed: **30 April 2021**

Language

The Conference language will be English.

Proceedings

Each participant at the HTDC is invited to send manuscripts to the special issue of the conference. The papers will be published in "La Metallurgia Italiana", the International Journal of the Italian Association for Metallurgy, which is indexed by ISI web of Science and Scopus, after standard peer review. The accepted papers will be published in electronic form and issued to attendees on arrival at the Conference.

Sponsorship opportunities

Companies will be able to enhance their corporate identification by taking advantage of benefits offered to them as Sponsors of the Conference. Companies interested in sponsoring the Conference may contact the Organising Secretariat (info@aimnet.it).



**HIGH TECH
DIE CASTING**
INTERNATIONAL
CONFERENCE

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HTDC Conference will be held once again in Vicenza, where the 1st HTDC Conference took place in 2002. Through the years, the HTDC Conference has grown and become a key-event for scientists and researchers from the foundry field of Aluminium, Magnesium and other non-ferrous alloys as well as for experts from the industry. The HTDC Conference series has been steadily growing in quality, impact and participation in the following conferences, organised in 2004, 2006, 2008, 2012 and 2016.

The HTDC Conference is the meeting point for experts involved in the research activities and development of foundry technologies, processes or materials, as well as those employed by the foundry companies of light and non-ferrous alloys, and who are prepared to share some of their current experiences. Today, Die Casting production is facing new challenges: from eco-sustainability and efficient energy usage to optimisation of product properties and finishing, from tailored alloys' properties to design of lightweight larger structural components. Only an "open-minded" approach, resulting in a high capability of being innovation-driven, integration-oriented and implementation-ready, will make Die Casting foundries successful in an international market dominated by strong competition.

To sustain the competitiveness in Die Casting production, HTDC Conference will cover these key features:

- innovations, from alloys to processes, from design to applications, which are available to foundries, suppliers, end-users;
- multi-disciplinary integration of concepts, methods and processes;
- implementation, into the industrial context, of new and modern solutions for quality, efficiency, high performance.

The scientific and technical program of HTDC Conference will be defined by a Scientific Committee, representing the most important international institutions and companies involved in Die Casting and related technologies. HTDC will be an exhaustive Conference focusing on scientific, technical and management innovations in the field of Die Casting, with papers and contributions from a very qualified panel of experts, with both academic and industrial background.

Topics

HTDC Conference will cover all the most significant aspects involved in Die Casting industry:

- Raw materials (primary, recycled) and alloys (Aluminium, Magnesium, Zinc, Metal-Matrix Composites...)
- Processes (High Pressure Die Casting, Gravity and Low Pressure Die Casting, vacuum processing, semi-solid techniques, squeeze casting)
- Equipment (Die Casting machines, furnaces, metal treatment units, robots...)
- New approaches for product engineering and lightweight design
- Characterisation (non-destructive, microstructural, mechanical) of products
- Technologies for advanced and smart process control (lubrication, thermal conditioning, cognitive systems...)
- Simulation of Die Casting processes, and genesis and evolution of alloy microstructure
- Materials and processes competition for the production of high-performance castings
- Post-casting (thermal, surface) treatments and operations for value added products
- National and international standardization
- Eco-sustainability requirements and life cycle assessment applied to Die Casting production
- Die Casting industry in a Circular Economy scenario
- Economical and logistic aspects of processes

Conference chairmen

prof. Franco Bonollo - DTG, Università di Padova, Italy

prof. Giulio Timelli - DTG, Università di Padova, Italy

Local organising committee

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Conference organisers



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