ECHT
European Conference
on Heat Treatment



ECHT 2027 & 32nd IFHTSE World Congress

April 28–30 2027 | Milan Italy

Organised by ASSOCIAZIONE ITALIANA DI METALLURGIA

IFHTSE

The Industry meeting point for the international heat treatment and materials science network

Call for Papers

ECHT 2027 and 32nd IFHTSE World Congress will be jointly held in Milan on 28-30 April 2027 by AIM, the Italian Association for Metallurgy.
These two jont conferences are the premier global forum for the exchange of cutting-edge scientific knowledge and industrial advancements in heat treatment and surface engineering and will offer great networking opportunities.
The event is dedicated to researchers, engineers, metallurgists, and industry leaders seeking to bridge the gap between laboratory innovation and large-scale industrial application.

Topics for Abstract Submission

We invite online submission of abstracts (300-500 words) covering recent scientific research, technological innovations, and case studies related to the following topics:

1. Advances in heat treatment: quenching, tempering, carburizing, and nitriding.
2. Vacuum heat treatment technologies: low-pressure carburizing, high-pressure gas quenching, and vacuum furnaces.
3. Thermochemical surface engineering: cvd, pvd, coatings, and diffusion treatments.
4. Induction and laser hardening technologies.
5. Heat treatment for additive manufacturing: post-processing and heat treatment of 3d printed components.
6. Industrial furnaces & equipment: energy efficiency, industry 4.0, sensors, and process control.
7. Heat treatment of ferrous and non-ferrous alloys: microstructure evolution and mechanical properties.
8. Sustainability for heat treatment plants and process chains.
9. Simulation and modelling: distortion control, residual stresses, and process simulation.
10. Artificial intelligence and digitalization.
11. New material developments.
12. Material analysis and quality control.

submit your abstract

in cooperation with A3TS · ASMET THE AUSTRIAN SOCIETY FOR METALLURGY AND MATERIALS · ATZK ASSOCIATION for the Heat Treatment of Metals · AWT Arbeitsgemeinschaft Wärmebehandlung + Werkstofftechnik e.V. · SVW Schweizer Verband für Wärmebehandlung · VWT Vereniging voor Warmtebehandelingstechniek

ECHT 2027
32nd IFHTSE World Congress



Organised by ASSOCIAZIONE ITALIANA DI METALLURGIA

IFHTSE

Scientific & Steering Committee

Conference Chair: Massimo Pellizzari (University of Trento)
Co-Chair: Lesley Frame (IFHTSE President)

The preliminary list of the International Scientific & Steering Committee members is available at:
www.aimnet.it/echt2027.shtml

Important Deadlines

- **Abstract Submission Deadline: November 20, 2026**
- Notification of Acceptance: January 15, 2027
- Early Bird Registration: February 5, 2027
- Full paper or extended abstract: March 5, 2027

Proceedings

The full text or extended abstract of the accepted papers will be published in the electronic proceedings and issued to attendees on arrival at the Conference. Only papers which are accompanied by the signed copyright transfer form can be accepted. Certain papers may be considered for publication in the AIM journal La Metallurgia Italiana – International Journal of the Italian Association for Metallurgy, which is covered in the Science Citation indexed by Clarivate Analytics (formerly Thomson Reuters), and in Scopus by Elsevier B.V.

Venue

The Conference will be held in Milan, at the FAST Congress Centre in Piazzale R. Morandi, 2. The FAST Congress centre is set in the hearth of Milan, very near to its Cathedral, known as Duomo and to the best hotels of the city. It can be easily reached from the Central railway station and it's well served by the public transportation (Underground: line 3 yellow - Turati station).

Organising Secretariat

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TOM BELL AWARD AND FURTHER IFHTSE AWARDS

For young researchers under 35 years of age, IFHTSE will give
* the Tom Bell Young Author Award (TBYAA), which consists in free participation at the next IFHTSE World Congress in Switzerland 2028, including the cost of travel and accommodation, and
* the IFHTSE World Congress scholarship, a financial support.

To candidate for the awards, just click the respective tickbox on the online submission form when you submit your abstract!"
The „Tom Bell Young Author Award" (TBYAA) and the IFHTSE World Congress Scholarship are given for the best papers from young authors presented at the IFHTSE World Congress.

The TBYAA consists in the invitation for free participation at the next IFHTSE World Congress. The award covers economy class transport, accommodation, and participation fee. The award is named in honour of the late Prof. Tom Bell of the University of Birmingham, twice IFHTSE President, IFHTSE Fellow and IFHTSE Medalist.
The IFHTSE World Congress Scholarship is a financial support in cash.
To be eligible for the awards, the author must
- be under 35 years of age on the last day of the World Congress,
- register for the awards when submitting the paper to the World Congress,
- submit the full paper not later than a month before the event,
- and present the paper in person at the World Congress.

https://www.aimnet.it/echt2027.shtml