



On behalf of the Organizing Committee, we are pleased to invite you to the 13<sup>th</sup> European Symposium on Martensitic Transformations (ESOMAT 2024), which will be held from August 26<sup>th</sup> to 30<sup>th</sup>, 2024.

The European Symposium on Martensitic Transformations, since 1989 first edition, is one of the most important events for scientists who are interested in martensitic transformation-based phenomena, shape memory alloys, magnetic shape memory alloys, martensite in steel and ceramics.

ESOMAT 2024 covers all aspects behind the martensitic transformation, from theory, modelling, experimental characterization, fabrication and processing, structure/property evaluation and applications. A special focus will be on the martensitic transformation features and properties of 3D additive manufacturing materials.

The ESOMAT 2024 scientific program will largely but not uniquely concentrate on the following topics:

- Martensitic and other Displacive Transformations in:
  - Ni-free alloys;
  - Ni-Ti based alloys;
  - Ti based alloys;
  - high entropy alloys;
  - magnetic systems;
  - high temperature systems;
  - steels, including TRIP/TWIP;
  - non-metallic materials;
  - architected materials;
  - nanosized materials and systems;
  - thin films;
  - composites and hybrid materials
- Other Shape Memory Alloys and Ceramics
- Mechanical and Micromechanical Modelling
- Shape Memory and Superelasticity
- Fatigue and Fracture behaviour
- Heat treatments, Ageing, Ordering and Stabilization
- Morphology and Microstructure
- Thermomechanical behaviour, Modelling and Kinetics
- Pseudoelasticity and Shape-Memory Effects characterization
- Computational Material Design and Alloy Development
- Alloys-Ferroc Transitions
- Elastocaloric Cooling, thermoelastic energy harvesting and emerging applications
- 3D -Additive Manufacturing
- Material Processing effect on Martensitic Transformation issues
- SMA Characterization and Testing
- Properties, transformation-based devices and other SMA applications

## REGISTRATION

Visit the website <https://esomat2024.org> and follow the instructions. Register by **May 10, 2024** to avail of early-bird registration fees.

## ORGANISING SECRETARIAT

AIM - Associazione Italiana di Metallurgia  
Via Filippo Turati 8 – 20121 Milano – Italy  
Tel. +39 0276021132 or +39 0276397770  
esomat2024@aimnet.it - <https://esomat2024.org>

## ORGANIZERS



## WITH THE SUPPORT/ENDORSEMENT OF

