



ESOMAT 2024
13th European Symposium on
Martensitic Transformations
26 – 30 August 2024
Lecco – ITALY

<https://esomat2024.org>

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

CALL FOR PAPERS & PROCEEDINGS

Abstract submission is open, send your abstract **before March 29th, 2024** and join the Conference.

Visit the website <https://esomat2024.org> and follow the instructions.

After the Conference, all presented contributions can be submitted for possible publication in the peer-reviewed and indexed journal Materials Today: proceedings.

ORGANISING SECRETARIAT

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ORGANIZERS



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