

Mechanics and materials

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The mini-symposium “Mechanics and Materials” is promoted by the AIMETA group Mechanics of Materials (Gruppo Meccanica dei Materiali, GMA). The goal of the GMA is to encourage and foster research and development in the broad field of materials and to provide a forum for networking and technical information exchange for researchers and students interested in material mechanics, science, and engineering.

The aim of the mini-symposium is to bring together scientists from different fields and communities with the purpose of discussing fundamental advances and concepts and identifying future developments. Contributions are sought on both basic and applied topics and presentations are encouraged on:

- Mechanics of new advanced materials with novel or improved properties.
- Materials modeling and simulation with focus on multi-scale and multi-physics phenomena.
- Integrated design and optimization of multi-functional materials/structures for sustainable growth.
- Inspiration by nature: promotion of eco-design, bio-inspiration, natural materials.
- Control of the performance of materials during their life cycle and smart structures.