Mechanics of green composites: mechanical characterization and related technological issues

Organizers:

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The widespread use of conventional materials is responsible of an environmental burden today unbearable. The use of green composites to develop new eco-friendly structures may be an effective approach to meet this challenge. In this frame, the main goal of this mini-symposium is to highlight actual performances of new materials, with intrinsic low environmental impact over all their life-cycle, and consequently to gain useful insights about their potential use in mass applications as civil and industrial fields.
The topics of the mini-symposium include but are not limited to:

- Bio-based polymer composites
- Hybrid systems
- Natura fibers and textile composites
- Mechanical and dynamic-mechanical properties
- Monitoring of mechanical behaviour by infrared thermography
- Durability and aging
- Eco-friendly geopolymer
- Green concrete
- Life Cycle assessment
- Modelling of damage and fracture