Special Session 7 (SS07)

Shape Memory Polymer Composites and Their Potential Applications

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Description:

Shape memory polymers (SMPs) are polymeric smart materials that are capable of recovering from a temporary to a permanent shape when induced by external stimuli such as temperature, light or magnetic field. Due to their active deformation and adaptive deployment capabilities, SMPs have attracted much attention in biomedical and aerospace fields, such as various types of tissue engineering scaffolds and deployable structures.

The purpose of this special session is to present the latest advances in shape memory polymers and their potential applications.

We encourage the submission of abstracts covering, but not limited to, the following topics:

- Shape memory polymers for tissue engineering scaffolds
- 4D printed shape memory polymers for biomedical applications
- Aerospace deployable structures based on shape memory polymer composites