EUROMAT 2017/ Symposia Structure/Area B

B.6

Title: Advanced Composites

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Summary

Advanced structural polymer-based composites are increasingly used in defense, aerospace, transport and marine applications where 'mass optimization' and 'multi-functionality' are keywords. This symposium on Advanced Composites aims to offer a great platform for scientists/researchers, engineers, and industry practitioners as well as managers in the structural composites field to share, discuss and present their latest research to the relevant community. As this a dynamic field, the scope of this symposium will cover a broad range of mechanical, physical and functional properties of composites. Both theoretical/analytical and experimental works on prediction of the performance of composite components are encouraged as well as challenging industrial applications or recent developments in hierarchical structured materials.

Topics include (but not limited to):

- Thermal and electrical conductivity
- FST Properties
- Nano-Materials
- Multifunctional Materials
- Thermal and flame properties
- Micro-Mechanics
- Multi-Scale Modelling
- Fracture Mechanics
- Progressive Failure Analysis
- Fatigue
- Impact
- Structural Health Monitoring