

## **Mini-Symposium 3-7: Modeling fatigue of materials and structures**

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The aim of this mini-symposium is to offer a forum to people working in the field of fatigue of materials and structures with a theoretical and experimental perspective for presenting and discussing recent progress. Academic research as well as applications to industrial applications are welcome. with topics including but not limited to:

- Fatigue of materials for energy storage, electrical vehicles, biomedical applications
- Fatigue of architected materials
- Fatigue in extreme conditions (temperature, environment)
- Fatigue of assemblies
- New characterisation techniques for assessing fatigue damage and fatigue lives
- Crack propagation modeling
- Variable loading conditions (How to deal with cumulative damage)
- Application of IA for fatigue life assessment
- Modelling at the local scale (e.g. crystal plasticity)
- Multiscale modelling