



Symposium D3 Mechanics characterization and modelling

- Mechanics of nanomaterials, nanostructures, thin films, and multiphase materials
- Advances in instrumentation for mechanical testing at the micro- & nanoscale
- Cutting-edge computational, data-driven, machine learning and AI-supported approaches applied to micro- and nanomechanical topics
- Techniques for measuring stress-strain relationships in micro- and nanostructures
- Characterization of strain-rate sensitive deformation mechanisms
- Fatigue, and creep phenomena across multiple length scales
- Techniques for hierarchical and functional materials characterization across different length scales
- 3D characterization of small structures in relation to mechanical phenomena
- In situ and in operando testing for micro- and nanomechanics
- Micro- and nanomechanics of fracture, as well as adhesive & cohesive failures
- Modeling techniques for small-scale mechanics
- Experimentally informed scale-bridging models

Abstract submission deadline: January 31, 2025

Organization

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