

6th International Conference of Engineering Against Failure



Session description

- Chairpersons names: Prof. Konstantinos Tserpes – Mr. Kai Brune
- Affiliation: University of Patras - Fraunhofer Institut für Fertigungstechnik und Angewandte Materialforschung, Greece - Germany
- Title of the session: Adhesive Bonding
- Objectives: The session on "Adhesive Bonding" aims to gather high quality contributions from the scientific areas of science and technology of adhesives, technology of adhesive bonding and applications. The topics of the session include but are not limited to:
- Novel adhesives (new formulations, nano-enabled adhesives, bio-based adhesives, etc.)
 - Characterization of bulk adhesives
 - Surface treatment
 - NDT, Extended NDT, Quality assurance
 - Structural Health Monitoring
 - Characterization of adhesive joints
 - Modeling and simulation of adhesive joints
 - Multi-scale modeling of heterogeneous adhesive
 - Pre-bond contamination, environmental ageing
 - Design of adhesive joints
 - Certification aspects
 - Hybrid bonded/bolted joints, Crack arrest mechanisms
 - Novel testing methods
 - Aerospace, automotive, marine and civil applications