

ICSI 2023

Fatigue and Structural Integrity

Fatigue is considered one of the main causes for in service failure of mechanical components and structures. The need for the weight reduction of components and a growing need for greater lifespans of equipment, forced the understanding of the fatigue behavior of materials under complex loadings cycles and increased number of loading cycles. It is generally recognized that multiaxial stresses occur in many full-scale structures, being rare the occurrence of pure uniaxial stress states.

This symposium is intended to consider all type of works concerning fatigue and structural integrity; Research on the performance of fatigue tests under different loading conditions, or real components/structures under different service conditions are welcome.

Further research is needed concerning LCF, HCF and VHCF in order to achieve better improvements in testing and modelling under real loading conditions.

The main objective of this International Symposium is to bring together researchers, engineers, and students to present and exchange new data and new ideas, allowing an interesting multidisciplinary discussion.

Organizing Committee

Luis Reis - LAETA, IDMEC, Instituto Superior Técnico, Universidade de Lisboa, Portugal

luis.g.reis@tecnico.ulisboa.pt

José Correia - Faculdade de Engenharia da Universidade do Porto, Universidade do Porto, Portugal

jacorreia@inegi.up.pt

Filippo Berto - University Rome "Sapienza"

filippo.berto@ntnu.no