

## ECF23, European Conference on Fracture 2020

*June 27 – July 3, 2020. Funchal, Madeira, Portugal*

### TC15 STRUCTURAL INTEGRITY OF ADDITIVELY MANUFACTURED COMPONENTS

**Additive manufacturing** (AM) techniques offer the potential to economically fabricate customized parts with complex geometries in a rapid design-to-manufacture cycle. Before benefits can be explored in critical load bearing applications, the basic understanding of the mechanical and functional behavior of these materials must be substantially improved at all scales. In particular, a better understanding of fracture and fatigue performance is key.

**ESIS TC15** is aimed to describe physical phenomena of fatigue and fracture of AM materials and develop effective criteria for the design of unprecedented high performing components for next generation automotive, aerospace and biomedical applications.

The symposium will provide the most update state of the art in the field of structural integrity applied to additively manufactured parts.

All contributions in the form of extended abstracts will be peer reviewed by the members of TC15 Scientific Committee. Full papers will be published in a special issue of the ESIS scientific journals (Elsevier) upon peer review and acceptance.

### Organizing Committee

Prof. Filippo Berto, Norwegian University of Science and Technology  
Prof. Luca Susmel, University of Sheffield  
Prof. Guian Qian, Chinese Academy of Science  
Prof. Matteo Benedetti, University of Trento  
Prof. Anton Du Plessis, Stellenbosch University  
Prof. Nima Shamsaei, Auburn University  
Prof. Jan Torgersen, Norwegian University of Science and Technology  
Prof. Pedro Moreira, University of Porto  
Prof. Luis Reis, University of Lisbona