ESIAM19

First European Conference
Structural Integrity of Additively Manufactured Materials

Trondheim, Norway, 4-6 September 2019

Conference Chairmen

Prof. F. Berto	Prof. L. Susmel	Prof. J. Torgersen	Prof. B.Van Hooreweder
NTNU Norway	University of Sheffield	NTNU and Stanford	KU Leuven

Aim

Structural integrity, i.e. the fracture and fatigue strength of additively manufactured materials and components is becoming increasingly important with the technology's transition towards major industrial utilization. The conference will provide an overview over current scientific knowledge and stimulate ideas for future research directions in this emerging field. ESIAM19 will be the opening event for a yearly international conference series held alternating in Europe and worldwide.

Background

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. The conference will shed light on the basic 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.

Complete information of the conference will be provided soon

Organized by ESIS TC15

Structural Integrity of Additive Manufactured Components

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