Additive Manufacture has advanced considerably since it was called Rapid Prototyping and the change of name reflects a different purpose. AM is no longer simply making a prototype, it is making a product fit for purpose.

The benefits of AM are widely debated but the challenges of a new manufacturing process need to be addressed. Powder materials need to be stored, transported and reused, potentially degrading their performance. Products made by traditional manufacturing methods have known defects and AM can introduce its own flaws. These can be characterised by appropriate Non-Destructive Testing. The fatigue performance of any component is dependent upon the manufacturing route. AM opens up new opportunities in near net shape and low cost manufacturing provided the resulting structural integrity and durability are properly understood.
PROVISIONAL PROGRAMME

09.00  Registration, Tea and Coffee

09.20  Introduction to EIS and MTC

09.30  KEYNOTE: Structural Integrity in Additive Manufacturing - Iain Todd, University of Sheffield

10.00  AM part integrity: the NDT in-process and post-build perspectives - Ben Dutton, MTC

10.30  Characterising the Fatigue Performance of Additive Materials using the Small Punch Test - Dai Lewis, Swansea University

11.00  Tea/Coffee

11.15  Fatigue Testing and Characterisation of an Additive Manufactured Titanium Alloy - Rob Plaskitt - HBM Prenscia

11.45  Challenges with Additive Manufacture and the Aerospace Industry - Mark Craig - Safran

12.15  Powdered-polymer Additive Manufacturing - why materials matter - Candice Majewski, University of Sheffield

12.45  Lunch

1.30  Lab Tour of MTC labs (security clearance required)

3.00  New Nickel based Superalloys for Additive Manufacturing - Roger Reed, Oxford University

3.30  The Metalysis Process – A Flexible Distributed Manufacturing Route for the Production of Novel AM Powders - Ian Mellor - Metalysis

4.00  Additive Manufacturing for Space Applications: On Earth, On Orbit and On Planet - Andrew Norman - ESA

4.30  Closing Comments

BOOKING FORM

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