Submit an abstract by May 1, 2020 to:

Structural integrity, qualification, and certification of AM materials and parts

The rapid adoption of additive manufacturing across different industry sectors for multiple applications demands the need to demonstrating methodologies for the mitigation of risk arising from material flaws. For safety-critical applications, it is imperative to have an understanding of the effects of defects on the performance of the parts. This becomes more difficult as there is limited historical data to compare with and the inherent variability in the process characteristics associated with the additive manufacturing technology. This lack of understanding is also hindering the qualification and certification of components produced by additive manufacturing technologies.

This symposium broadly covers the following topics:

- Characterization of AM materials
- Establishing process-structure-property-performance relationships
- Methods to verify the structural integrity of 3D printed parts
- Factors influencing the structural integrity
- Modelling of mechanical behavior

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