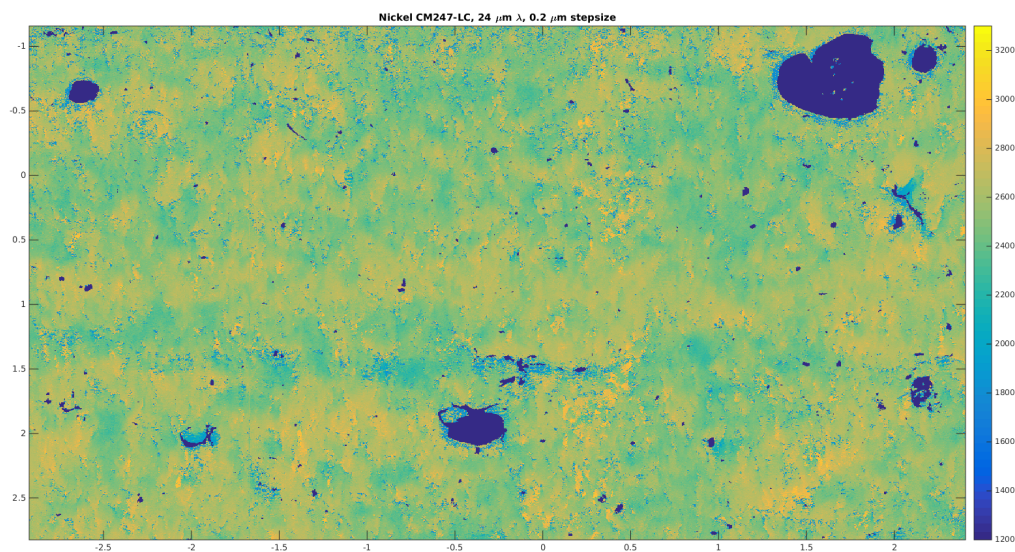




Optics and Photonics Group
Lunchtime Seminar
**“Developing in-situ
inspection of selective laser
melting components”**

Paul Dryburgh



12:00pm Thursday 30th March 2017
203 Tower Building
All Welcome

http://optics.nottingham.ac.uk/wiki/Talks_2017

Abstract



“Developing in-situ inspection of selective laser melting components ”

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Selective Laser Melting (SLM) is a powder based additive manufacturing technique used to create complex geometry components. The ability to reduce component weight and potentially increase efficiency thanks to hard to geometries, difficult or impossible to create by subtractive techniques, has made SLM of particular interest in high-value industries. Unfortunately, SLM is inherently prone to a variety of defects, and thus to truly gain traction in industry, a reliable and robust inspection technique is needed. The layer-by-layer nature of the build provides a unique opportunity to inspect the component quasi-volumetrically by studying each new layer through the build. Generating data during the build can then be used to move towards a closed-loop system.