

A brief description of the guest lecture content

"Advanced additive manufacturing technologies and their industrial applications"

by professor Toms TORIMS – Riga Technical University

(to be provided at UPV on 30 November 2016 at 15.30 – 19.00)

1. Part I – Introduction to the Additive Manufacturing:
 - a. Description of the presented technologies
 - b. state-of-the-art and potential development areas
 - c. Pros and cons, limitations and challenges

2. Part II - Industrial applications of the advanced Additive Manufacturing technologies:
 - a. Analysis of the industrial solutions and proliferation of the technology
 - b. Impact to the final surface quality parameters
 - c. Identification of the prospective technologies and trends

3. Part III – case study – application of the Laser Cladding for the in-situ marine diesel engine crankshaft repairs:
 - a. Requirements by the industry and certification of the technology
 - b. Development of the prototype device
 - c. Technological challenges and way forward

Prof. Toms TORIMS

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