Materials Issues in Additive Manufacturing

25th and 26th June 2018

Bundesanstalt für Material-forschung und –prüfung (BAM)

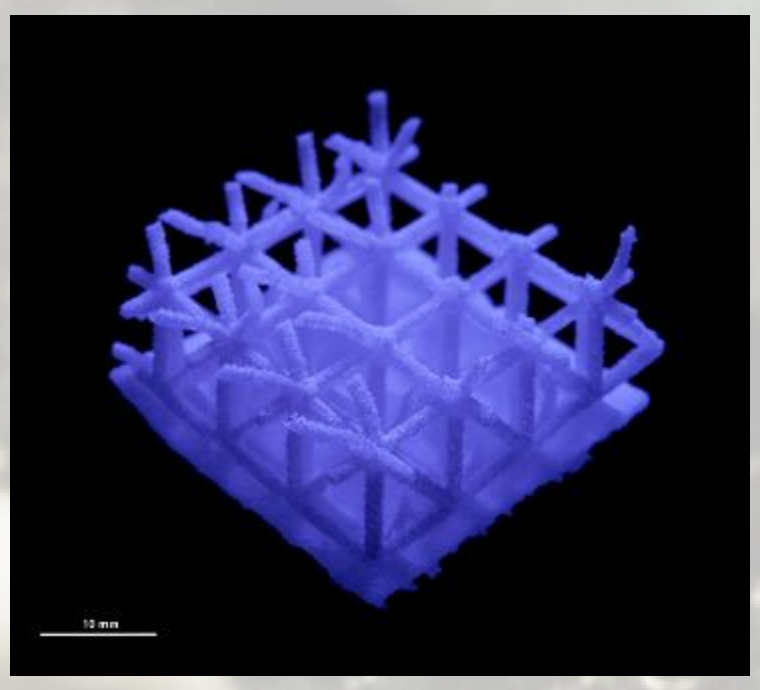
Unter den Eichen 87, D-12205 Berlin

Background

Additive manufacturing technologies open a very wide spectrum of new applications in different technical areas. A thorough understanding of the material properties in additive manufactured parts is still behind the development of new AM technologies. A reliable application of these parts requires among other topics the characterization of the raw materials, the online monitoring of the additive manufacturing process, the control of the finishing producing steps. This workshop will present the results of current projects and discuss the role of standardization.

Topics

- The relevance of materials science for the maturity of additive manufacturing
- Impact of processing conditions and post-treatments on material properties in additive manufacturing
- Powder based additive manufacturing - from porcelain to technical ceramics
- Additive manufacturing of polymers - technologies and materials
- An assessment of bulk residual stress in selective laser melted Inconel 718



The Versailles Project on Advanced Materials and Standards (VAMAS) was formed in 1982 with the mission of fostering world trade in products that depend on advanced materials though international collaborations that provide the technical basis for harmonization of measurement methods, codes of practice and standards.

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