

Introduction of the First Year Ph.D. Student

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Institute of Machine and Industrial Design
Faculty of Mechanical Engineering
Brno University of Technology

Presentation of the first-year Ph.D. students,
27th September 2017

Content

- Introduction of myself
- Education
- Pd.D. study
- Work experience
- Teaching and learning



Introduction of myself



Jan Suchý

- D5/470
- RIAT Group

Hobbies

- LARP
- Historical fencing
- Tourism



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Education

High School:

2007 – 2011

Secondary Technical School in Žďár nad Sázavou with specialization in Mechanical Engineering

University:

2011 – 2015

Bachelor's degree programme Mechanical Engineering at Faculty of Mechanical Engineering, Brno University of Technology

2015 – 2017

Master's degree programme Mechanical Engineering Design at Faculty of Mechanical Engineering, Brno University of Technology



Ing. Petr Fořt



Ing. Jaroslav Kletečka



Bachelor's thesis

Production of knives

- Supervisor

Ing. Aleš Polzer, Ph.D.

The main objectives

- Development of knives
- Knives materials
- Manufacturing technology



Dutý



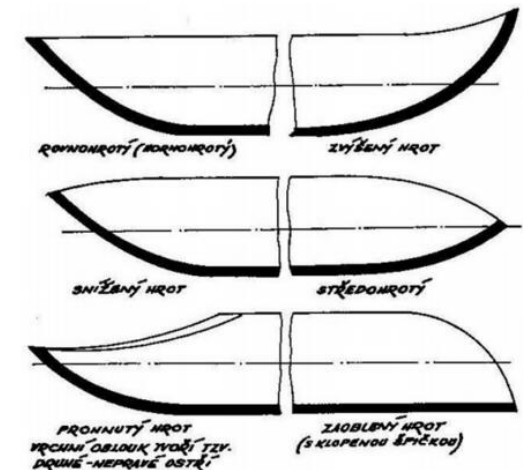
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Šavlovitý



Konvexní



Master's thesis

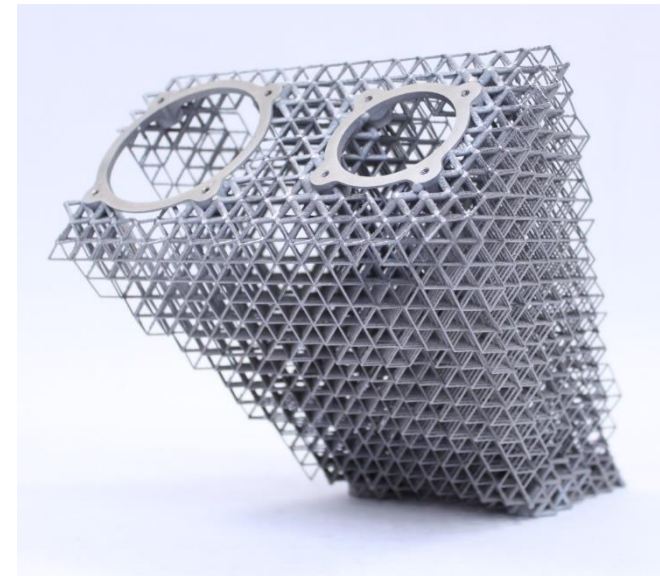
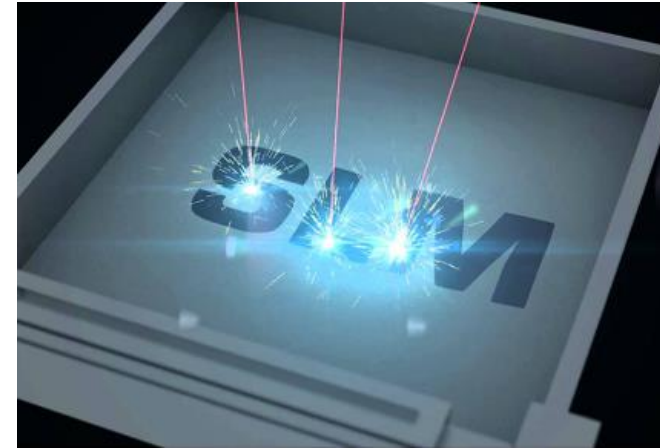
Processing of high strength aluminum alloy AlSi9Cu3 using technology selective laser melting

- Supervisor

Doc. Ing. David Paloušek, Ph.D.

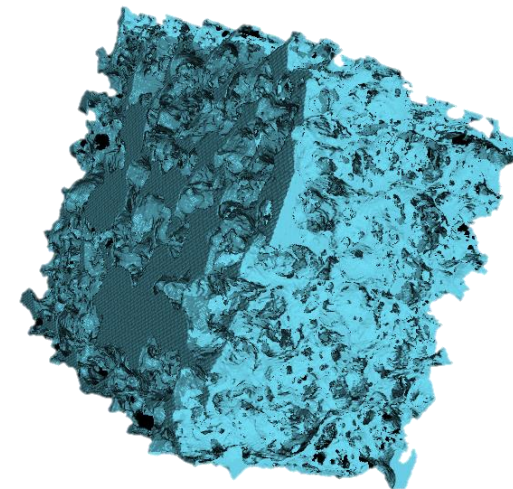
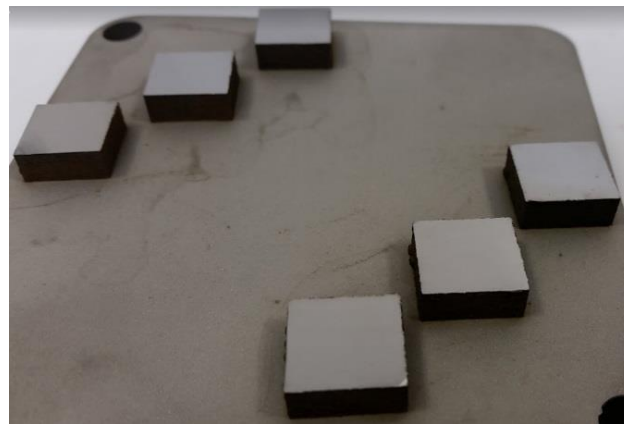
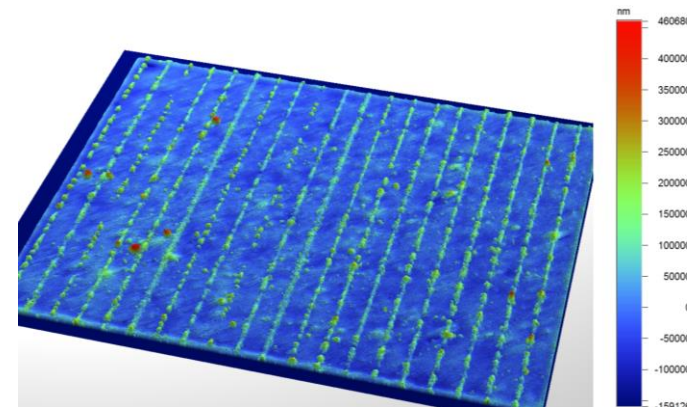
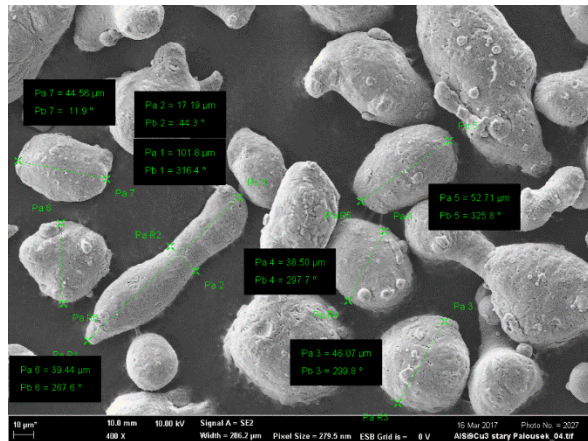
The main objective

- Clarification of the effect of laser processing parameters on the mechanical properties of AlSi9Cu3 by means experimental methods
- Funded by GAČR project



Master's thesis

Processing of high strength aluminum alloy AlSi9Cu3 using technology selective laser melting



About my dissertation

Processing of magnesium alloy using technology selective laser melting

- Supervisor

Doc. Ing. David Paloušek, Ph.D.

- Expert Consultant

Doc. Ing. Daniel Koutný, Ph.D.

The main objective

- Determination of process parameters of laser melting of selected magnesium alloy, which allows the processing of material for use in engineering.
- Funded by Trio MPO FV20232 project (Biodegradable structured implants manufactured by the 3D metal printing method)



Work experiences

- six months in ŽĎAS a.s. – CNC programmer, Construction
- four months in JULI Motorenwerk - Construction



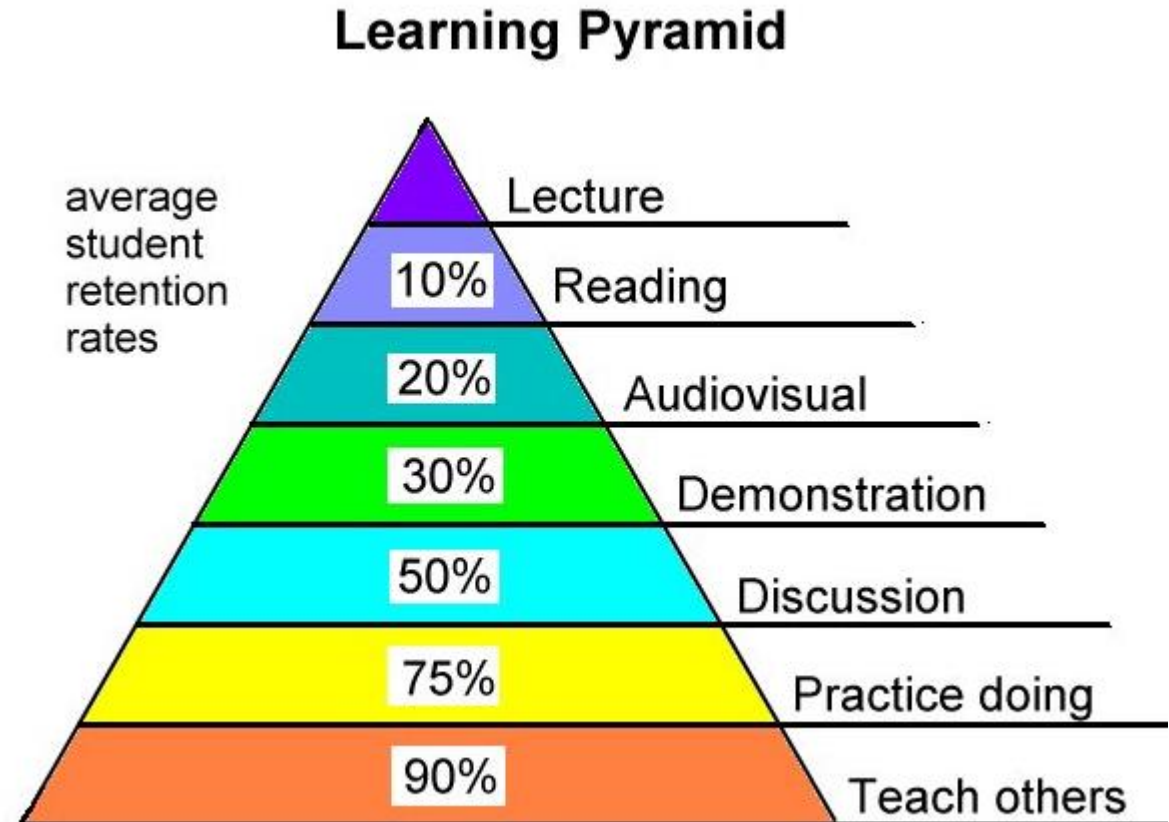
Teaching and Learning

Teaching

- 3CD – AutoCAD, Inventor
- 1K – Basic of design
- ZM1 – Parametric modeling

Learning

- 9AJ - English for Doctoral Degree Study
- 9MOP - Methodologies of Scientific Work
- 9VPR - Research Project and its Management
- 9TTS - Theory of melt weldability of metals
- 9ZMV – Testing of Mechanical properties



Thanks for your attention

Ing. Jan Suchý

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<http://uk.fme.vutbr.cz/>