Introduction of the First Year Ph.D. Student

Ing. Jan Suchý

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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Introduction of myself

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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

Presentation of the first-year Ph.D. students

Ing. Petr Fořt  Ing. Jaroslav Kletečka
Production of knives

- Supervisor
- Ing. Aleš Polzer, Ph.D.

The main objectives
- Development of knives
- Knives materials
- Manufacturing technology
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

Presentation of the first-year Ph.D. students
Master’s thesis

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

Presentation of the first-year Ph.D. students
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)

Presentation of the first-year Ph.D. students
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

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