

Integrated research and teaching system for the implementation of additive technologies BPI/PST/2021/1/00092

Seminar I – 12.10.2022

Biomaterials for medical implants

- 9:00 **Welcome**
PhD. Eng. Anna Makuch, Łukasiewicz Research Network - Institute of Precision Mechanics
- 9:15 **Biomaterials for implantology and regenerative medicine**
Prof. PhD. Eng. Wojciech Świążkowski, Warsaw University of Technology, Faculty of Materials Science and Engineering
- 10:00 **Biopolymer Research at the TU Chemnitz/MERGE**
Prof. PhD. Eng. Lothar Kroll, Chemnitz University of Technology – MERGE
- 10:40 **Break**
- 10:50 **Biodegradable implants obtained from magnesium alloys. Perspective and problem**
PhD. Lech Kwiatkowski, Łukasiewicz Research Network - Institute of Precision Mechanics
- 11:35 **Improvement of the mechanical properties of medical implants made of titanium alloys**
PhD. Eng. Paweł Marchlewski, Łukasiewicz Research Network - Institute of Precision Mechanics
- 12:15 **Break**
- 12:25 **Methods of improving the mechanical properties of titanium and its alloys used in bioengineering**
MSc Jakub Bańcerowski – Warsaw University of Technology, Faculty of Mechanical and Industrial Engineering
- 13:10 **Simple analytical models for repetitive biostructures**
Prof. PhD. Eng. Atul Bhaskar – University of Sheffield, Department of Mechanical Engineering
- 13:55 **Discussion. Summary**
PhD. Eng. Anna Makuch, Łukasiewicz Research Network - Institute of Precision Mechanics

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