





Faculty of Engineering University of Kragujevac **UniKG**

Serbia

Kick-off meeting

Barcelona, 3-5 March 2014





University of Kragujevac, UniKG, Serbia

- 12 faculties
- 14 000 students
- 1000 academic staff



Kragujevac











Faculty of Engineering Kragujevac www.fink.rs

- Established in 1960
- The oldest faculty of the University
- 24 Centers, 10 Labs
- 4 buildings 15.000 m² gross area
- Number of teaching staff: 82 (25 full professors, 15 associate professors, 12 assistant professors, 15 assistants, 45 doctoral students)











Faculty of Engineering Kragujevac

- Undergraduate, Bachelor programs
- Graduate, Master programs
 - Mechanical engineering
 - Automotive engineering
 - Urban engineering
 - Business Information System
 - Industrial Management

Doctoral programs

- Mechanical engineering
- Bioengineering





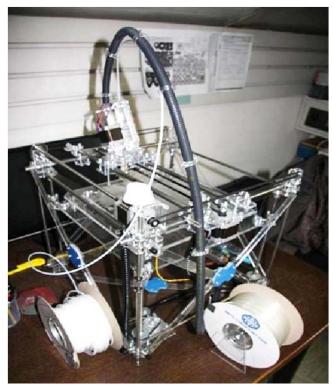
Departments

- Manufacturing Engineering
- Applied Mechanics and Automatic Control
- Computer Engineering
- Industrial Engineering
- Motor Vehicles and Motors
- Mechanical Constructions
- Energy and Process Engineering
- Mechatronics





Center for Information Technologies Rapid Prototyping



BitsFromBytes RapMan



ZPrinter 310 System



Vacuum casting system

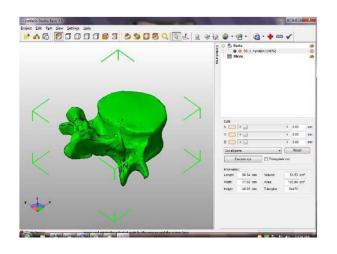
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Center for Information Technologies Rapid Prototyping













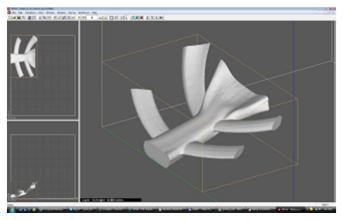




Center for Information Technologies

Rapid Prototyping









STERNUM BONE fabrication

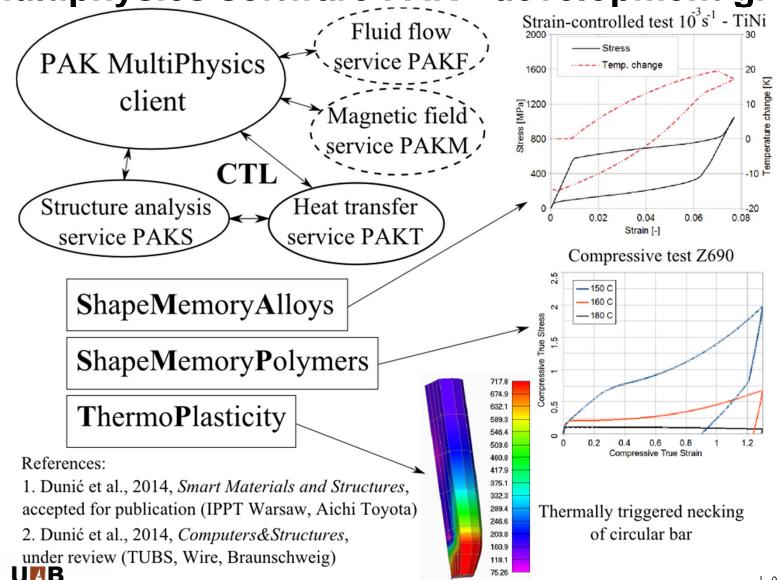








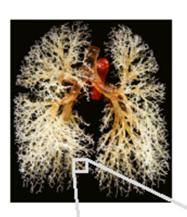
Multiphysics software PAK - development group



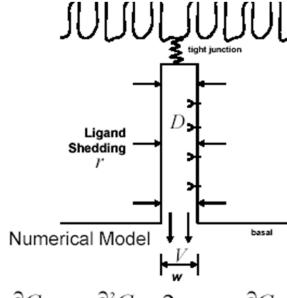


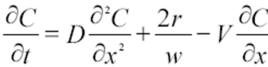


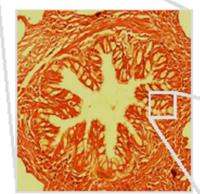
Center for Bioengineering



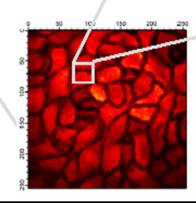
Understand and Treat Disease by **Understanding** Hierarchical Mechanisms







Bronchoconstriction mechanical stress

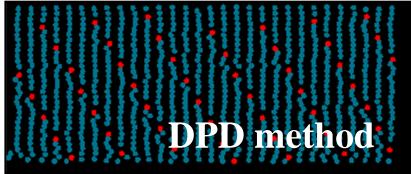


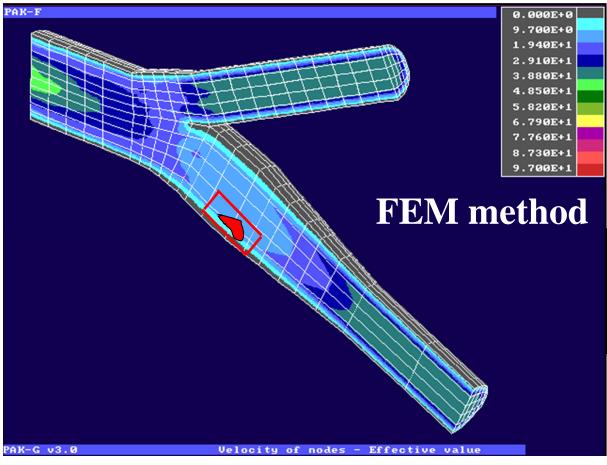
In vitro pressure LIS collapse

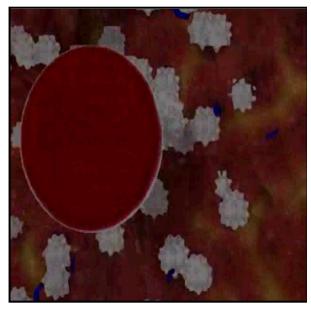


Center for Bioengineering

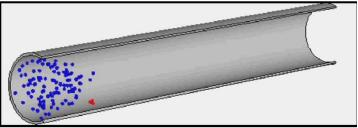








Thrombosis modeling

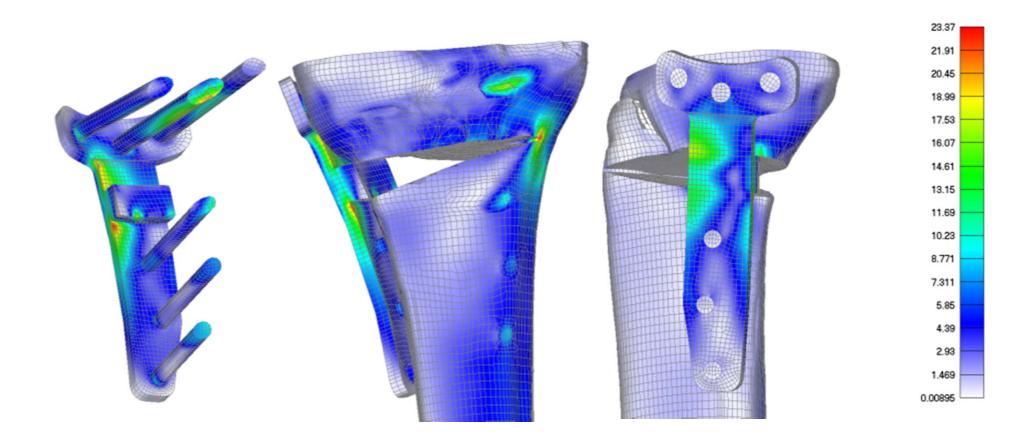






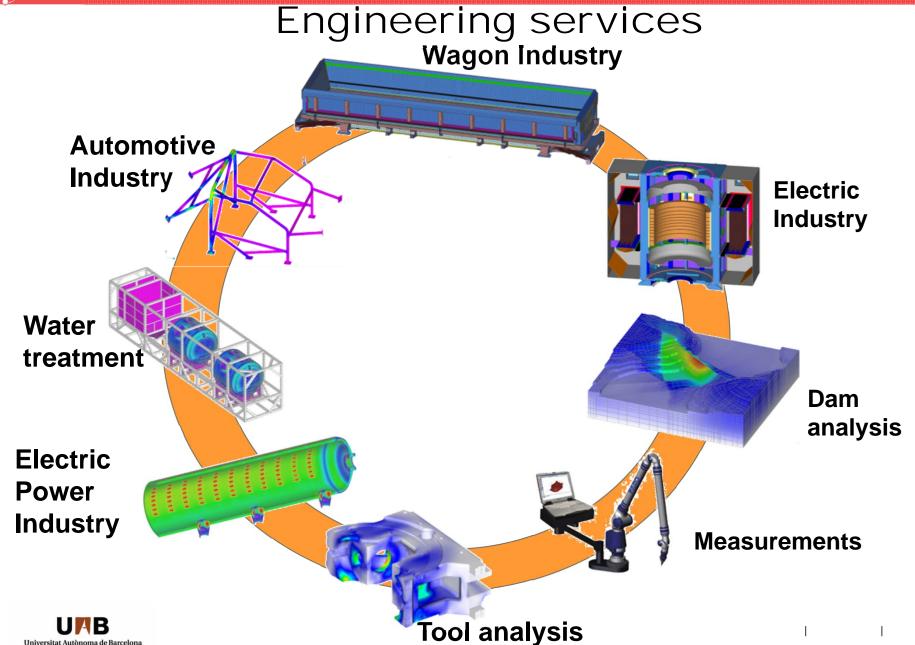
Laboratory for Engineering Software

FE Analysis of open wedge high tibia osteotomy





WIMB Laboratory for Engineering Software







Laboratory for Nanotribology









Nanotribometer

AFM

SEM

Profilometer

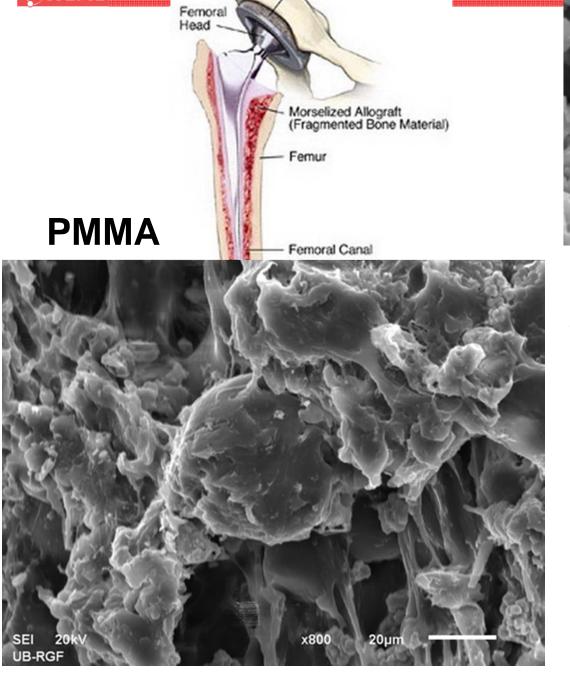






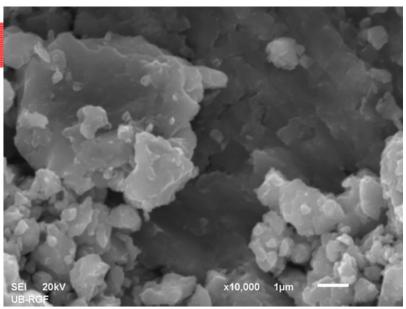


Nano/micro-scratch Nano/micro indenter Optical Microscope Tribometer

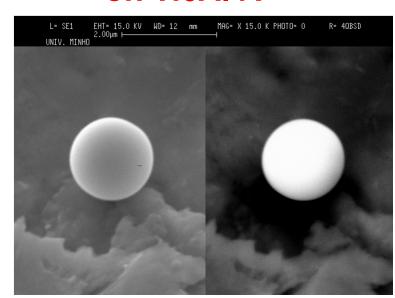


WIMB

Acetabular Cup and Polyethylene Liner



Ti6AI4V
Silver (Ag) nanoparticles
on Ti6AI4V







Faculty of Engineering Kragujevac Team

- CONTACT PERSON: Prof Dr Nenad Grujovic, full professor, Head of Center for Information Technologies
 - Computer Engineering, Scaffolds engineering, Rapid Prototyping, FEM, CE Modeling, Business Systems
- Dr Fatima Zivic, research associate, Laboratory for Nanotribology
 - Nanotribology, Characterisation of Biomaterials, Nanotechnology, Optical imaging, Business Systems
- Prof Dr Miroslav Zivkovic, dean, full professor, Laboratory for Engineering Software
 - FEM modeling, FEM software development
- Prof Dr Nebojsa Jovicic, full professor
 - Energy savings, Waste management, Process technologies
- Prof Dr Radovan Slavkovic, full professor, Laboratory for Engineering Software
 - FEM modeling, FEM software development
- Prof Dr Nenad Filipovic, vice rector, full professor, Center for Bioengineering
 - FEM modeling in Bioengineering, FE, CFD, Fluid-structure interaction, MD, DPD
- Prof Dr Slobodan Mitrovic, associate professor, Laboratory for Nanotribology
 - Tribology of composites, Dental tribology/nanotribology, Machine tool design and development,
 Entrepreneurship







Role in the project

- Assistance in Project coordination
- Coordination of PC partners
- PARTICIPATION IN ALL PROJECT ACTIVITIES

