

ADVANCED CERAMICS AND GLASS FOR MEDICAL APPLICATIONS



4.11. Monday

10:00 – 12:00 **Lab tour**
12:00 – 16:00 **Training**
17:00 - ? **Social night**

5.11. Tuesday

9:00 – 10:30 Session: Processing

9:00 - 9:30 Lucie Pejchalová (CEITEC, RG 2.1)

Impact of ice-templating combined with indirect 3D printing on phase composition of hydroxyapatite scaffolds

9:30-10:00 Claudia Paredes (UEX)

Mechanical performance of hybrid coaxial scaffolds fabricated by additive manufacturing.

10:00 - 10:30 Josef Kraxner (Funglass):

Porous bioactive glass microspheres prepared by flame synthesis process

10:30 – 10:45 **Coffee break**

10:45 – 12:15 **Session: Sintering**

10:45 - 11:15 Karel Maca (CEITEC, RG 2.1)

Co-operation between FunGlass Centre of Excellence and Brno University of Technology in the field of development of new functional and biomedical ceramic and glass/ceramics materials

11:15 - 11:45 David Salamon (CEITEC, RG 2.1)

Direct building of 3D microchannel structure for medical applications

11:45 - 12:15 Václav Pouchlý (CEITEC, RG 2.1)

Transparent magnesium aluminate spinel sintered by Spark Plasma Sintering

12:15 – 13:00 **Lunch**

13:00 – 14:30 **Session: Properties**

13:00 - 13:30 Edgar B. Montufar (CEITEC, RG 2.05)

Biomimetic processing of calcium phosphate ceramics for bone regeneration

13:30-14:00 Veronika Grézlová (CEITEC, RG 2.07)

Thixotropic calcium phosphate-based bone substitute with controlled release of antimicrobial agents: a novel tool for the treatment of osteomyelitis

14:00 - 14:30 Lenka Novotná (CEITEC, RG 2.1)

Calcium phosphate scaffolds with controlled pore size distribution prepared by in-situ foaming

14:30 – 14:45 **Coffee break**

14:45 – 16:15 **Session: Testing**

14:45-15:15 Lucy Vojtová (CEITEC, RG 2.07)

Bio-artificial resorbable polymer-ceramic hybrid implant for interbody fusion: preparation, characterization and preclinical evaluation

15:15-15:45 Jaroslav Pejchal (University of Defence)

PUMA Inhibitors

