



FunGlass

# FunGlass School 2019/part 1

Čertov

20<sup>th</sup> – 22<sup>th</sup> May, 2019

## ***Scientific part:***

### **Seminar on Functional Materials**

Biomaterials

Coating Processes

Glass Processing

Functional Materials

Corrosion

## ***Complementary skills:***

Project Implementation and Management in 2nd Reporting Period

European H2020 program for Research and Innovations

Institutional Funding of Research and Performance Measurement

Teaming with Advanced Partners

English Competence Program

# PROGRAM

**Monday, May 20, 2019**

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10,30	<i>Registration</i>
	<u>Project Implementation and Management in 2nd Reporting Period</u>
10,40- 11,10	<b>D. Galusek:</b> FunGass project progress report, incl. new projects <u>European H2020 program for Research and Innovations</u>
11,10- 12,00	<b>I. Hermanovská:</b> H2020/ MSCA Program/Program spreading excellence and widening participation
12,00- 13,00	<i>Lunch</i>
13,00- 13,30	<b>A. Chrastinová Kalinayová:</b> FunGlass project: Challenges for upcoming months <u>Scientific part</u>
13,30- 13,50	<b>A. Dasan:</b> Development of 3D bioactive silicate based glass-ceramic scaffolds with hierarchical porosity by additive manufacturing
13,50- 14,10	<b>Z. Neščáková:</b> Sol-gel derived Zn-doped mesoporous bioactive glasses for biomedical applications
14, 10- 14,30	<b>Z. Vargas:</b> Magnetic Mesoporous Silica Nanocomposites based on SBA-15/Fe <sub>3</sub> O <sub>4</sub> as Multifunctional Nanoplatfroms for Technological Applications
14,30- 14,50	<b>F. Dogrul:</b> Production of SiOC based bioactive glass for bone tissue applications
14,50- 15,10	<i>Coffee Break</i>
15,10- 15,30	<b>F. Kurtuldu:</b> Synthesis of Cerium and Gallium Doped Mesoporous Bioactive Glass Nanoparticles
15,30- 15,50	<b>N. Mutlu:</b> Incorporation of zinc doped borate glasses into soft matrices for wound healing applications
15,50- 16,10	<b>S. Sengupta:</b> Magnetic bioactive materials for bone regeneration and tissue engineering
16,10- 16,30	<b>N. Afsharimani:</b> Sol-gel based hybrid coatings for corrosion protection of AA2024-T3 alloys
16,30- 16,50	<b>M. Žitňan:</b> Inkjet printing of ceramic precursors based on sol-gel media
	<u>Teaming with Advanced Partner</u>
16,50- 17,30	<b>A. Dasan:</b> How they do it in Italy... (informal speech about the training period experience)
18,00	<i>Dinner</i>
	<u>English Competence Program</u>
19,00	<b>R. Lee:</b> Quiz (teambuilding game)

## Tuesday, May 21, 2019

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### Scientific part:

9,00- 9,20	<b>I. Petříková:</b> Passive filler loaded polysilazane-derived glass/ceramic coating systems
9,20- 9,40	<b>M. Parchovianský:</b> Passive filler loaded polysilazane-derived glass/ceramic coating system on AISI 441 stainless steel: High temperature oxidation behaviour
9,40- 10,00	<b>A. Švančárková:</b> Effect of Corrosive Media on Hardness and Wear resistance of $\text{Li}_2\text{Si}_2\text{O}_5$ glass-ceramics
10,00- 10,20	<b>J. Vráblová:</b> Corrosion Of IZOMER TT Glass Fiber Under Static Conditions In Distilled Water And In Borate Coolant Solution
10,20- 10,40	<b>O. Nowicka:</b> Corrosion and Low Temperature Degradation of 3Y-TZP Ceramics
10,40- 11,00	<i>Coffee break</i>
11,00- 11,20	<b>A. Plško:</b> Crystallisation of $\text{TiO}_2$ xerogel
11,20- 11,40	<b>H. El-Maghraby:</b> Solid-state fabrication of transparent YAG ceramics for optical applications: Characterization, mixing, and processing of the starting oxides
11,40- 12,00	<b>P. Švančárek:</b> White light emitting $\text{Y}_2\text{O}_3$ based fluorescents doped by $\text{ZnO}$
12,00- 13,00	<i>Lunch</i>
13,00- 13,20	<b>J.J. Velázquez García:</b> From Xerogels to Aerogels: synthesis of porous glass-ceramics for optical applications
13,20- 14,20	<b>Zeiss company/ZEISS</b> Correlative microscopy
14,20- 15,10	<b>W. Wisniewski:</b> EBSD at the FunGlass Project in Trenčín
15,10- 16,00	<b>P. Hošták:</b> Institutional funding of research in Slovakia and performance measurement at FunGlass
16,00- 16,20	Coffee/ Tea time
16,20- 19,00	RELAX time
19,00	Dinner / Barbecue

## Wednesday, May 22, 2019

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### Scientific part:

9,00- 9,20	<b>M. Chromčíková:</b> Study of selected physical properties of phosphate glasses
9,20- 9,40	<b>B. Hruška:</b> Surface active components of glass forming melts identified by thermodynamic model

9,40- 10,00	<b>A. Prnová:</b> HP sintering of yttrium-aluminate glass - Impact of particle size distribution on mechanical properties
10,00- 10,20	<b>M. Micháľková:</b> Preparation of translucent YAG glass/ceramic at temperatures below 900 °C
10,20- 10,40	<i>Coffee Break</i>
10,40- 11,00	<b>M. Hujová:</b> Vitrification and upcycling of inorganic waste
11,00- 11,20	<b>K. Faturíková:</b> Dielectric properties of barium crystal glass
11,20- 11,40	<b>J. Micháľková:</b> Chemical durability of glass fibres insulation used in nuclear power plants
11,40- 12,00	<b>Nibu G.P.:</b> Preparation and characterization of Ceria doped yttria ceramics by pressure filtration method
12,00	<i>Lunch</i>

This conference is part of a project that has received funding from the **European Union's Horizon 2020 research and innovation programme under grant agreement N°739566**

