



FunGlass

# FunGlass School 2019/part 2

Papradno

27<sup>th</sup> – 29<sup>th</sup> November, 2019

## ***Scientific part:***

### **Seminar on Functional Materials**

Biomaterials

Coating Processes

Glass Processing

Functional Materials

Structure / Properties

## ***Complementary skills:***

FunGlass and CEGLOSS Project Management Update

Business Trip Report Processing

Teaming with Advanced Partners

English Competence Program

# PROGRAM

## Wednesday, November 27, 2019

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10,30	<i>Registration</i>
10,40- 11,10	<b>D. Galusek:</b> Invitation and FunGass project update
11,10- 11,30	<b>J.J. Velázquez García:</b> Dopant effects on the structure and optical properties of the NaREF <sub>4</sub> oxyfluoride glass-ceramics
11,30- 11,50	<b>A. Prnová:</b> Thermal behavior and photoluminescence properties of Er and Nd doped Y <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> glasses
12,00- 13,00	<i>Lunch</i>
13,00- 13,20	<b>A. Akusevich:</b> Preparation of Ce <sup>3+</sup> -doped phosphors by sintering of glass microspheres
13,20- 13,40	<b>P. Švančárek:</b> White light emitting Y <sub>2</sub> O <sub>3</sub> based fluorescents doped with ZnO
13,40- 14,00	<b>M. Žitňan:</b> From the Edison bulb to new LED lights: the use of new glass-ceramic materials for energy-saving light sources
14, 00- 14,20	<b>M. Blaško:</b> DFT study of the Au-C bond formation in gold implanted polyethylene
14,20- 14,30	<i>Coffee Break</i>
14,30- 14,50	<b>B. Singarapu:</b> Transparent glass-ceramic materials synthesized by Spark Plasma Sintering (SPS) for photonic applications
14,50- 15,10	<b>M. Michálková:</b> Spark plasma sintering of glass microspheres with YAG composition
15,10- 16,40	<b>D. De Ligny:</b> Raman Spectroscopy Applied to Glass
16,50- 18,30	<b>D. De Ligny:</b> Training: How to treat Raman data (baseline subtraction, normalization, fit...)
18,45	<i>Dinner</i>

## Thursday, November 28, 2019

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9,00- 9,20	<b>A. Talimian:</b> Chemical tempering of flexible glasses
9,20- 9,40	<b>R. Dagupati:</b> Structure and properties analysis by the Associate Solutions Thermodynamic Model in BaO-P <sub>2</sub> O <sub>5</sub> glasses
9,40- 10,00	<b>K. Griebenow:</b> Network Mediated Coupling in Phosphate Glasses
10,00- 10,20	<b>M. Mahmoud:</b> Effect of nucleating agents on the characterization of basaltic glass ceramics
10,20- 10,30	<i>Coffee break</i>

10,30- 11,45	<b>F. Munoz:</b> Fundamentals of solid state Nuclear Magnetic Resonance and application to the structure of glasses
12,00- 13,00	<i>Lunch</i>
13,00- 15,30	<i>RELAX time</i>
15,30- 15,50	<b>A. Lopez:</b> Thermodynamic study of the structure and properties of Li <sub>2</sub> O-P <sub>2</sub> O <sub>5</sub> glasses
15,50- 16,10	<b>A. Plško:</b> Spectral properties of inorganic-organic films on glass
16,10- 16,30	<b>K. Faturíková:</b> Influence of the preparation conditions for inorganic-organic nanocomposite layers on their hydrophobicity
16,30- 16,50	<b>M. Parchovianský:</b> Preparation of PDC layers with passive fillers and commercial glasses
16,50- 17,10	<b>N. Afsharimani:</b> Preparation of hybrid TEOS/APTES coatings on glass by sol-gel method
17,10- 17,20	<i>Coffee Break</i>
17,20- 17,40	<b>N. Kamble:</b> Corrosion resistance hybrid sol gel coating: its synthesis and characterizations
17,40- 18,00	<b>P. Hošťák:</b> FunGlass review meeting impulses
18,00- 18,20	<b>A. Chrastinová &amp; M. Brodová &amp; L. Kuníková:</b> Problematic issues with business trip reports
18,20- 18,40	<b>R. Dagupati:</b> How they do it in Madrid (informal speech about the training period experience)
18,40- 19,00	<b>R. Varga &amp; L. Kuníková &amp; E. Konečná:</b> CEGLOSS project activity update and discussion (round table) and working statements (new rules for filling documents)
19,00- 20,00	<i>Dinner</i>
20,00-	<b>R. Lee:</b> Quiz (teambuilding game)

## Friday, November 29, 2019

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9,00- 9,20	<b>J. Kraxner:</b> Porous bioactive glass microspheres prepared by flame synthesis
9,20- 9,40	<b>A. Dasan:</b> Method for producing 3D silicate based bioactive glass-ceramic scaffolds using digital light processing
9,40- 10,00	<b>B. Pecušová:</b> Influence of aluminosilicates and their modified forms on properties of composite materials
10,00- 10,20	<b>M. Michálek:</b> Therapeutic ions doped mesoporous bioactive glass
10,20- 10,30	<i>Coffee Break</i>
10,30- 10,50	<b>D. Galusková:</b> Initial dissolution profile and kinetics of glasses for bio applications
10,50-11,10	<b>Si Chen:</b> Multi-targeted B and Co co-doped bioactive glass for angiogenesis
11,10- 11,30	<b>Z. Neščáková:</b> Electrospun polycaprolactone membranes doped with bioactive glass nanoparticles for tissue regeneration

11,30- 11,50 **A. Švančárková:** Dissolution process of Bioglass 45S5 in physiological and acidic environment

12,00 *Lunch*

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