



# FunGlass School 2018/part 2

Trenčianske Teplice

28<sup>th</sup> – 30<sup>th</sup> November, 2018

## ***Scientific part:***

### **Seminar on Functional Materials**

Biomaterials

Coating Processes

Glass Processing

Functional Materials

Corrosion

## ***Complementary skills:***

Project Implementation and Management

Grant Writing - Horizon 2020 rules

Management of Advanced Research Facilities

Teaming with Advanced Partners

# PROGRAMME

## Wednesday, November 28, 2018

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11.00	Registration
12.00	Lunch
13.00	Opening by FunGlass Director

### **Project Implementation and Management**

13.10- 13.50	<b>D. Galusek:</b> FunGlass project report, incl. new projects
13.50- 14.35	<b>P. Hošťák:</b> FunGlass project key performance indicators
14.35- 14.50	Coffe break

### **Scientific part**

14.50- 15.10	<b>M. Liška:</b> Parametrization of thermodynamic models
15.10- 16.10	<b>W. Wisniewski:</b> EBSD in glass-ceramics
16.10- 16.20	Coffee Break
16.20- 16.40	<b>R. Klement:</b> Photoluminescence properties of Ce <sup>3+</sup> -doped and Ce <sup>3+</sup> /Mn <sup>2+</sup> /4 <sup>+</sup> co-doped Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> phosphors obtained by crystallization of aluminate glass with eutectic composition
16.40- 17.00	<b>A. Prnová:</b> HP sintering of yttrium-aluminate glass microspheres
17.00- 17.20	<b>P. Švančárek:</b> Sintering experiments and luminescent properties of Zn <sup>2+</sup> doped Y <sub>2</sub> O <sub>3</sub>
17.20- 17.40	<b>A. Plško:</b> functionalization of glass by sol-gel films
17.40- 18.00	<b>Nibu, P. G.:</b> Yttria nanopowders for transparent yttria ceramics prepared by precipitation sol-gel method
18.00- 18.20	<b>F. Dogrul:</b> Production of h-BN ceramic powder with DCRN method
18.30	<i>Dinner</i>
After dinner	<b>D. Galusek:</b> This world is worth walking... - travel discussion about Santiago de Compostela (optional)

## Thursday, November 29, 2018

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### **Scientific part**

9.00- 9.20	<b>N. Kamble:</b> An overview: Polymer Derived Coating(PDC) on Stainless steel
9.20- 9.40	<b>M. Parchovianský:</b> Preparation, investigation and characterization of polysilazane-derived (oxy)nitride coatings on steel substrate
9.40- 10.00	<b>J. Vráblová:</b> Chemical durability of gama-irradiated glass fibrous insulation used in nuclear power plants

10.00- 10.20	<b>J. Michálková:</b> Structure and properties of glass fibers insulation used in nuclear power plants
10.20- 10.40	<b>B. Hruška:</b> Raman spectroscopy and PCA, MCR study of heavy weathered glass
10.40- 10.45	Coffee break
10.45- 11.30	<b>M. Kule:</b> Netzsch Thermal Analysis

### Grant writing- H2020 Rules

11.30- 13.00	<b>S. Ftáčniková:</b> Ethics in H2020
13.00	Lunch
14.00- 16.30	Teambuilding activity - walk around Tr. Teplice, the pool Grand, ...

### Teaming with advanced partners

17.00- 17.45	<b>Z. Neščáková:</b> How they do it in Germany... (First hand experience from long term stay in Friedrich-Alexander-University, Erlangen)
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### Management of research facilities

17.45- 18.45	<b>P. Otrubčák, P. Hošťák:</b> Management of advanced research facilities
19.00	Dinner

## Friday, May 18, 2018

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### Scientific part

9.00- 9.20	<b>P. Chrást:</b> Novel borophosphosilicate bioactive glass composition – analysis and corrosion behavior
9.20- 9.40	<b>F. Kurtuldu:</b> Mesoporous bioactive glass – Part I: processing and applications
9.40- 10.00	<b>Z. Neščáková:</b> Mesoporous bioactive glasses – Part II: Biological response
10.00- 10.20	<b>S. Sengupta:</b> Traditional way how to obtain 3D scaffolds with bone like structure
10.20- 10.30	Coffee Break
10.30- 10.50	<b>N. Mutlu:</b> Incorporation of fibrous/particulate bioglass in soft matrices for soft tissue applications
10.50- 11.10	<b>D. Galusková, H. Kaňková:</b> Inline measurement of leachates from bioglass immersion tests
11.10- 11.30	<b>J. Valúchová:</b> Flame synthesis of binary aluminate glass microspheres
11.30- 11.50	<b>K. Faturíková:</b> The temperature dependence of the impedance spectrum of the barium crystal glass
11.50- 12.10	<b>P. Šimon:</b> Some peculiarities of the isoconversional methods
12.15	Lunch