



FunGlass

FunGlass School 2022

Čertov

June 1- 3, 2022

Scientific part:

(Central laboratories & VILA Dpt., PhD students)

Biomaterials

Coating Processes

Glass Processing

Functional Materials

Structure / Properties

Complementary skills:

FunGlass and CEGLOSS Project Management Update

Business Trip Processing

Teaming with Advanced Partners

University Quality System - new standards

English Competence Program

PROGRAM

Wednesday, June 1, 2022

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| 9,30-10,00 | <i>D. Glausek</i> : FG school Opening FunGlass and where we are: director's perspective |
| 10,00- 10,20 | <i>M. Šedivý, L. Kuniková</i> : Reconstruction of premises & installation of new equipment (CEGLASS) |
| 10,20- 10,40 | <i>M. Šandrejová, M. Brodová</i> : Business trips tips |
| 10,40- 11,00 | <i>D. Galusková</i> : Central Lab department activities: Past, Present&Future |
| 11,00- 11,20 | <i>B. Pecušová</i> : Influence of preparation method on thermal behavior of gelenite glasses |
| 11,20- 11,30 | <i>Coffee break</i> |
| 11,30- 11,50 | <i>B. Hruška</i> : Identification of corrosion products and their depth on historical glass objects |
| 11,50- 12,10 | <i>O. Nowicka</i> : The assessment of the impact of the induced surface roughness on the tetragonal to monoclinic phase transformation |
| 12,10- 12,30 | <i>H. Kaňková</i> : Overview of XRF versus ICP applications in elemental analysis of glass materials |
| 12,30- 13,40 | <i>Lunch</i> |
| 13,40- 14,00 | <i>D. Galusek</i> : VILA dpt. intrudction |
| 14,00- 14,20 | <i>J. Valúchová</i> : Use of HT X-ray diffraction as a method supporting thermal analysis, data collection and evaluation in the Al ₂ O ₃ -La ₂ O ₃ system |
| 14,20- 14,40 | <i>M. Chromčíková</i> : Thermophysical methods and their use in the study of oxide glasses |
| 14,40- 15,00 | <i>M. Michálková</i> : The origin of the glass microspheres blowing |
| 15,00- 15,20 | <i>A. Prnová</i> : Preparation of materials with eutectic microstructure in system Al ₂ O ₃ --Y ₂ O ₃ |
| 15,20- 15,40 | <i>Coffee break</i> |
| 15,40- 16,00 | <i>P. Švančárek</i> : Bi ₂ O ₃ Doped Yttria: A New White Light Emission Fluorescent Material |
| 16,00-16,20 | <i>A. Talimian</i> : Mixed alkali effect and the mechanical properties of aluminoborate glasses |
| 16,20- 16,40 | <i>A. Najafzadeh</i> : Liquid phase sintering of yttrium oxide |
| 18,00 | <i>Dinner</i> |
| 20,00 | English Quiz |

Thursday, June 2, 2022

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| 9,00- 9,20 | <i>D. Galusek</i> : PhD Study- Obligations of PhD students & tasks and rights of PhD supervisors |
| 9,20- 9,40 | <i>P. Hošťák, M. Matejová</i> : Accreditation, Inauguration, PhD accreditation - Process highlight |
| 9,40- 10,00 | <i>A. Akusevich</i> : Preparation and characterisation of Ce ³⁺ -doped YAG-Al ₂ O ₃ glass-ceramic composites |
| 10,00- 10,20 | <i>M. Ghadamyari</i> : Luminescent YAG:Er microspheres used for preparation of phosphor in glass materials |
| 10,20-10,30 | <i>Coffee break</i> |
| 10,30- 10,50 | <i>M. Vakhshouri</i> : Fabrication of zirconia reinforced Al ₂ O ₃ /YAG eutectic ceramics by SPS |
| 10,50-11,10 | <i>J. Michalík</i> : New kinds of glassceramics materials in Al ₂ O ₃ -Re ₂ O ₃ and Al ₂ O ₃ -Re ₂ O ₃ -ZrO ₂ systems with interesting optical and mechanical properties |
| 11,10- 11,30 | <i>E. Varlik</i> : Advanced manufacturing of 3D scaffolds using solid, hollow and porous bioactive glass microspheres |
| 11,30-11,50 | <i>M. Saeed</i> : Core-shell structures with photocatalytic activity for wastewater treatment |
| 11,50- 12,10 | <i>M. Iqbal</i> : Novel semiconductor catalysts for hydrogen synthesis |
| 12,10- 13,30 | <i>Lunch</i> |
| 13,30- 14,00 | <i>M. Konečný</i> : Funding Fun glass Future with Horizon Europe |
| 14,00-14,20 | <i>P. Hošťák</i> : Building new connections & visual presentation (signature, PowerPoint, poster...) |
| 14,20- 14,40 | <i>D. Vavrová</i> : Open Access & Publishing Guidelines |
| 14,40 | SOCIAL program |
| 19,00 | <i>Dinner</i> |

Friday, June 3, 2022

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| 9,00- 9,20 | <i>H. Kandi</i> : Novel oxysulfides for NIR mechanoluminescence and biomechanical imaging |
| 9,20- 9,40 | <i>O. Basak</i> : Structure and properties of bioactive glasses doped with ions with potential therapeutic and antibacterial effects |
| 9,40- 10,00 | <i>R. Samiee</i> : Hydroxyapatite based coatings for surface modification of metallic implants |
| 10,00- 10,20 | <i>M. Vítázková</i> : Development of multifunctional nanodevices based on MBGs and magnetic nanoparticles for theranostic applications |

10,20- 10,30 *Coffee break*

10,30- 10,50 *A. Gamal*: Improvement of glass vials for pharmaceutical packaging

10,50- 11,10 *A. Ourgessa*: Preparation of geopolymer material from used AZS refractory and unrecycled glass fibers

11,10- 11,30 *K. Heglasová*: Study of surface morphology and characterization of corrosive products of industrially produced glasses – project plan

11,30- 11,50 *A. Chauhan*: High-entropy oxides ceramics: Present status, challenges, and future opportunities

11,50- 12,10 *P. Moghaddam*: Improvement of thermal stability of polymer derived ceramic coatings

12,10 LUNCH

13:30 BUS departure

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**



FunGlass
centre for functional and
surface functionalized glass

Supported by **Friends of FunGlass**