



FunGlass
centre for functional and
surface functionalized glass

FunGlass School 2025/2

Trenčín

November 5–7, 2025

PROGRAM

Wednesday, November 5

9,00- 9,10	<i>D. Galusek: Opening the FunGlass School</i>
Chairman: M. Michálek	
9,10- 9,30	H. Kaňková: Effects of laser power and feeder speed on samples prepared by laser morphing in the Everglass project
9,30- 9,50	A. Nowicka: Surface modifications of zirconia-based ceramics for dental applications: In vitro cytotoxicity and proliferation test using MG63 cells
9,50- 10,10	A. Chandrasekar: Tailoring 58S Sol-Gel Coatings for Biodegradable Magnesium Implants
10,10- 10,25	<i>Coffee break</i>
Chairwoman: M. Michálková	
10,25- 10,45	I. Parchovianská: Hot corrosion of YSZ and Gd ₂ Zr ₂ O ₇ /YSZ thermal barrier coatings in Na ₂ SO ₄ + V ₂ O ₅ molten salt
10,45- 11,05	A. Sekar: Microstructure driven thermal conductivity modeling of 8YSZ thermal barrier coatings
11,05- 11,25	O. Sharifahmadian: The Role of Nitrogen Incorporation in Tailoring the Structure and Properties of ZnO Thin Films Deposited by Magnetron Sputtering technology
11,25- 13,00	<i>Lunch</i>
Chairman: J. Velázquez García	
WEBINAR for GlaCerHub and CLiCAM partners	
13,00- 13,20	A. Dasan: Can Additive Manufacturing (AM) be a Sustainable and Economically Feasible Route for Recycling and Upcycling Waste Materials?
13,20- 13,40	A. Gamal: Towards Sustainability: Aqueous Solution Ion Exchange (AS-IET) for Glass Strengthening
13,40- 14,00	D. Lago: From 3D-printed glass to nanoporous materials: shaping a cleaner future

14,00- 14,20	M. Mahmoud: Fused Deposition Modeling and Autodesk Inventor: Principles and Advanced Applications
14,20- 14,35	<i>Coffee break</i>
Chairman: A. Pakseresht	
14,35- 14,55	A. Ourgessa: Upgrading an FDM 3D Printer into a versatile and effective direct ink writing system
14,55- 15,15	M.Truong: LiREF4@LiRE'F4 Core-Shell Nanoplatfrom towards Quantum dot-intergrated Heterostructures
15,15- 15,35	D. Salamon: Protection of intellectual properties at FunGlass - possible strategies

Thursday, November 6

Chairwoman: D. Galusková	
9,00- 9,20	O. Basak: Tuning the Properties of Mesoporous Bioactive Glass Nanoparticles through Calcium Nitrate Addition Timing
9,20- 9,40	C. German: Bismuth-containing bioactive glasses: silicate and borate networks for bioactive powders to be used in coatings deposition
9,40 - 10,00	M. Vitázková: Ionic medicine: Impact of various ions on osteogenesis
10,00- 10,20	Z. Neščáková: Smart pH-Triggered Antibacterial Silica for Oral Infection Control
10,20- 10,35	<i>Coffee break</i>
Chairwoman: H. Kaňková	
10,35- 10,55	Z. Vargas: Bioactive magnetic composite sponges, integrating controlled simvastatin delivery, magnetic hyperthermia and shape recovery
10,55- 11,15	S. Chen: Advancing DLP Manufacturing of Borate Bioactive Glass Scaffolds with Complex Geometries
11,15- 12,45	<i>Lunch</i>
STUDENT Session	
Chairman: A. Talimian	
12,45- 13,05	M. Ahmadi: The Effect of Nitrogen Incorporation of Alkali-Free Bioactive Glasses
13,05- 13,25	D. Jaramillo: Bismuth-doped mesoporous bioactive glass nanoparticles with broad mesoporous distribution: physicochemical properties, bioactivity, and radiopacity
13,25- 13,45	M. Abdolmaleki: Electrophoretic Deposition of Bismuth-Doped 1393-B3 Bioglass/PEEK Composite Coating on Titanium for Biomedical Applications
13,45- 14,00	<i>Coffee break</i>

Chairman: M. Žitňan	
14,00- 14,20	N. Alipanah: 3D-printed hydrogel scaffolds with bioactive glass and antibacterial propolis-loaded ZIF-8 for tissue regeneration
14,20- 14,40	E. Varlik: Digital Light Processing (Dlp) of Boron-Doped S53p4 Silicate-Based Bioactive Glass-Ceramic Scaffolds Fabrication for Enhanced Bone Tissue Regeneration
14,50- 17,00	<i>Guided Walk through Trenčín in English+ Old Herold Excursion (Trenčín distillery - history, present, tasting)</i>

Friday, November 7

Chairman: O. Sharifahmadian	
9,00- 9,20	A. Logavi: Development of Scalable PFAS-Free Transparent Hydrophobic Film for Advanced Functional Surface Applications
9,20- 9,40	M. Dua: Optimising Alkali-Assisted Spray Drying for Additive Manufacturing of Glass-Ceramic Membranes
9,40- 10,00	S. Khan: Wear Mechanisms of Fused-Cast AZS Glass Tank Refractories During Dissolution in Barium Crystalline Glass
10,00- 10,15	<i>Coffee break</i>
Chairwoman: D. Lago	
10,15- 10,35	S. Mohanan: Feasibility Study on the Upcycling of Waste Soda-Lime Glass into Structural 3D Glass-Ceramic Components using Binder Jetting Technology
10,35- 10,55	P. Sachin: Understanding the capacitive and diffusion controlled behavior of brown mud 3D printed electrode in different electrolyte medium

