FunGlass

FunGlass School 2024/2

Vršatské Podhradie

November 11- 13, 2024

Scientific presentations:

Biomaterials Dpt., Coating Processes Dpt., Glass Processing Dpt., PhD students

Biomaterials

Coating Processes

Glass Processing

Functional Materials

Structure / Properties

Plenary Meeting of the Scientific Board and FunGlass Staff

FunGlass project Work Carried Out

and

Results and Key Performance Indicators

PROGRAM

Monday, November 11, 2024

10,00- 10,15	D. Galusek	**FunGlass School Opening**
10,15- 10,20	***Awarding of diplomas to graduating PhD students***	
PHD SESSION		
10,20- 10,40	M. Ghaffari	Influence of Al doping on structural and optical properties of sol–gel derived ZnO thin films
10,40- 11,00	M. Sajjadi	NiMo Oxide-Ti3C2 MXene nanocomposite for oxygen evolution reaction (OER)
11,00- 11,15	*Coffee break*	
11,15- 11,35	D. Jaramillo	Advancing bone tissue regeneration: injectable bioactive composites with radiopaque, antibacterial, and angiogenic properties
11,35- 11,55	E. Varlik	The morphological effect of bioactive glass on polymer/BG composite scaffolds for tissue regeneration
11,55- 12,15	S. Zafarana	Alkali-activated materials based on volcanic ash and waste glass: sustainable and alternative geomaterials from waste to resource
12,20- 14,00	*Lunch*	
14,00- 14,20	A. Reupert	Side-emitting fibers: Targeted light scattering in optical fibers
	Friedrich Schiller University Jena, Otto Schott Institute of Materials Research	
14,20- 14,40	F. Scheffler	Glass fertilizer
	Friedrich Schiller University Jena, Otto Schott Institute of Materials Research	
14,40- 16,00	*Relax time*	
DEPARTMENT OF BIOMATERIALS		
16,00- 16,20	M. Michálek	Department of Biomaterials: Where we are standing
16,20- 16,40	Z. Neščáková	Elimination of oral pathogens using mesoporous silica as a carrier for an antiseptic compound
16,40- 17,00	Z. Vargas	Facile fabrication of a bioactive Si-Ca MBG-based coating for zirconia implants
17,00- 17,20	S. Chen	1393B3 Borate-based bioactive glass scaffolds for bone regeneration fabricated by additive manufacturing based on Vat Photopolymerization
17,20- 17,35	*Coffee break*	
17,35- 17,55	G. Clavijo	Structural and in-vitro characterization of RadioBiocoats: radiopaque thermally sprayed coatings
17,55- 18,15	F. Kurtuldu	Biofabrication using Alginate Dialdehyde, gelatin, and mesoporous bioactive glass nanoparticle composite bioinks
19,00	*Dinner*	

Tuesday, November 12, 2024

9,00- 10,00	S. Oktik *Maltepe University, Istanbul, Turkey*	Glass Sector and Value-Added Coatings Update
DEPARTMENT OF COATING PROCESSES		
10,00- 10,20	A. Pakseresht	Coating Department: Overview and Current Status
10,20- 10,40	M. Parchovianský	Preparation and investigation of hot corrosion, CMAS, and thermal shock behaviour of double-layer YSZ/LC+YSZ thermal barrier coatings
10,40- 11,00	O. Sharifahmadian	Structural evolution and optical properties of SiOx coating deposited using hollow cathode chemical vapour deposition
11,00- 11,15	*Coffee Break*	
11,15- 11,35	K. Mosas	Process optimization for the deposition of ZnO, TiO2, and TiN thin films via sputtering in a pilot scale
11,35- 11,55	A. Ijaz	Multifunctional biodegradable composite coatings for corrosion control of Magnesium alloys
11,55- 12,15	A. Sekar	Exploring the combined effect of Cerium-Doped Lanthanum Magnesium Hexaaluminate and Surface Roughness for Superior CMAS protection in Thermal Barrier Coatings
12,15- 13,45	*Lunch*	
13,45- 16,00	***Demonstration of Pilot AGC at FunGlass centre; FG Lab tour (for partners)*** *Transportation to TN/ from TN*	
13,45- 16,00	*Relax time*	
DPT. OF GLASS PROCESSING		
16,00- 16,20	J. Kraxner	Glass Processing Department: 2024 and Beyond
16,20- 16,40	D. Lago	Toward sustainable nuclear solutions: a dual approach to 137Cs immobilization in waste management
16,40- 17,00	Akansha	Transforming brown mud into a catalyst for sustainable water purification
17,00- 17,20	A. Dasan	Transforming waste glass into high-value products through digital innovation and sintering-aided additive manufacturing technology: An innovative approach
17,20- 17,35	*Coffee break*	
17,35- 17,55	A. Novokhatska	Additive manufacturing of SOFC components by multi-material approach
17,55- 18,15	P. Scanferla	Cold consolidation of waste fiber glass: the role of alkalis and their concentration
18,15- 18,35	M. Mahmoud	Fabrication and application of porous glass microspheres derived from fiber glass waste
19,00	*Dinner*	

Wednesday, November 13, 2024

PLENARY MEETING OF THE SCIENTIFIC BOARD AND FUNGLASS STAFF		
FunGlass project Work Carried Out		
9,30- 9,45	D. Galusek	Welcome and opening FunGlass Director´s introduction/reflections
9,45- 9,55	P. Hošták	FunGlass Organizational Structure
10,00- 10,15	P. Hošták	Establishment of Departments and Training with Partners
10,15- 10,30	A. Chrastinová	Doctoral Program & Training with Partners
10,30- 10,35	A. Chrastinová	Management System for Advanced Research Facilities
10,35- 10,50	M. Šedivý	Research Infrastructure Investments & Space Management
10,50- 11,00	*Coffee break*	
FunGlass project RESULTS and KPI´s		
11,00- 11,20	D. Galusek	Establishment of the Centre Scientific Excellence and Networking
11,20- 11,45	P. Hošták	Training and teaching activities (staff & PhD students) Intersectoral and International Collaboration Research projects and sustainability
11,45- 12,00	A. Chrastinová	Communication and Dissemination
12,00- 12,30	D. Galusek	The Future of FunGlass Centre: Strategy Beyond the Teaming Project
12,30- 14,00	*Lunch*	
14,00		BUS departure to **Trenčín**

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FunGlass
centre for functional and surface functionalized glass

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