

Wednesday, 05.07.2023				
12:00-13:15	Registration & Lunch			
13:15-13:30	Opening ceremony			
13:30-14:20	PL-01	Ali Ubeyitogullari	Convergence of 3D printing and Food-Grade Aerogels for the delivery of bioactive compounds	
Chairs: Milica Pantić + Changlin Wang				
14:20-14:30	O-01	Miguel Batista	A novel aerogel from a collagen-NADES Extract For Potential topical Biomedical Applications	
14:30-14:40	O-02	Lorenzo De Berandinis	Coating of whey protein aerogels with alginate, agar, or ethylcellulose to enhance their functionality and hydrophilic and hydrophobic model food system	
14:40-14:50	O-03	Sujie Yu	Comparison of drug release kinetics between carboxymethyl cellulose aerogels and cryogels	
14:50-15:20	Coffee break			
Chairs: Attila Forgacs + Isabella Jung				
15:20-15:30	O-04	Alfio Pulvirenti	Advanced polysaccharides-based materials from wastes as carriers of active molecules for biomedical applications	
15:30-15:40	O-05	Philip Sidney Pein	Biopolymer-derived carbon aerogels as catalyst support for Hydrogen evolution reaction	
15:40-15:50	O-06	Sara Valente	Galactomannan-based aerogel microparticles for potential pulmonary delivery	
15:50-16:00	O-07	Tania Ferreira-Goncalves	Biological thermal performance of aerogel patches for light -based therapies	
16:00-16:10	O-08	Eleni Effraimopoulou	Thermal superinsulating pectin aerogels	
16:10-16:20	O-09	Selay Sert Cok	SANS measurements on different vinyl substituted silica xerogels	
16:20-16:50	Coffee break			
Chair: Carlos A Garcia Gonzales				
16:50-17:05	O-10	Istvan Lazar	Artificial bone substitution with bioactive silica.calcium phosphate composite aerogels	
17:05-17:20	O-11	Ana Iglesias-Mejuto	Design and evaluation of UCNPs-loaded aerogels for bioimaging applications	
17:20-17:35	O-12	Yan Demidov	Fabrication of Antibacterial, Osteo-Inductor 3D printed Aerogel-based scaffolds by incorporation of drug laden hallow mesoporous Silica Microparticles into the Self-Assembled Silk Fibroin Biopolymer	
17:35-18:35	Poster Session			
19:00-22:00	Get together			

Thursday, 06.07.2023				
09:00-09:50	PL-02	Igor Lacik and Ana Aguiar-Ricardo	The IUPAC-Aerogels Connection: Aerogels as one of the IUPAC Top Ten Emerging Technologies in Chemistry in 2022	
Chairs: Ivana Lukić + Alfio Pulvirenti				
09:50-10:00	O-13	Francesco Ciuffarin	Feasibility of cellulose porous materials as oleogel-templates for the development of fat-replacers	
10:00-10:10	O-14	Cem Özel	Mesoporous Silica Aerogels for Sunflower Oil Refining and Investigation of their Adsorption performance	
10:10-10:20	O-15	Selay Sert Cok	Vinyl Modified Aerogel-Like materials as efficient sorbents for Oil/Organic Solvent removal from aqueous Media	
10:20-10:50	Coffee break			
Chair: Falk Liebner				
10:50-11:05	O-16	Tatiana Budtova	Aerogel-like cellulose monoliths and beads without supercritical- or freeze-drying	
11:05-11:20	O-17	Isaac Benito-Gonzalez	Optimization and characterization of reinforced biodegradable cellulose-based aerogels via PLA/PHB coating for agronomic applications	
11:20-11:35	O-18	Baldur Schroeter	Transparent Cellulose Aerogels from Concentrated Salt Solutions	
11:35-11:50	O-19	Melissa Augustin	Pickering emulsion-templated lignocellulosic adsorbents for pharmaceutical pollutants	
11:50-12:05	O-20	Diogo Costa	Upscaling of cellulose extraction from hemp bast fibers and production of cellulose aerogel beads: An industrial case	
12:05-12:20	O-21	Emine Yapici	Evaluation of Calcium Silica Aerogels as an Anticaking Agent for The Food Powders	
12:20-13:40	Lunch break			
Chair: Željko Tomović				
13:40-13:55	O-22	Istvan Fabian	Covalent immobilization of copper(II) complexes on silica aerogels has high impact on their catalytic activity in redox processes	
13:55-14:10	O-23	Adi Salomon	Optical Sensing of Contaminates in Water by metallic aerogels	

14:10-14:25	O-24	Valerie Lenigk	Sustainable Production of Aerogels from Recycled Materials, A Lifecycle Analysis
14:25-14:40	O-25	Vineta Srebrenkoska	Environmental friendly composites based on agricultural and plastic waste: production methods, current progresses and challenges
14:40-14:55	O-26	Katsuya Komiyama	Biomimetic Assembly of Artificial Leaf and Stem of Plants Using Polysaccharide for Water Desalination
14:55-15:10	O-27	Ilkay Turhan Kara	An Overview of Environmental Impacts of Aerogels with the Life Cycle Assessment Approach
15:10-16:00	Coffee break + poster session		
Chairs: Miguel Batista + Emine Yapici			
16:00-16:10	O-28	Changlin Wang	Closed-loop recycling and post-synthetic reprogramming of organic aerogels
16:10-16:20	O-29	Razan Altarabeen	Utilization of lignin aerogels into targeted industrial applications. Blow-in insulation as a prototype
16:20-16:30	O-30	Alexandra Croitoriu	Hybrid porous materials peptide-NaAlg/PitAU based with controllable properties
16:30-16:40	O-31	Ivana Lukić	Supercritical CO ₂ extraction from bilberry (<i>Vaccinium myrtillus</i>) fruit and impregnation of obtained extract onto starch aerogel
16:40-16:50	O-32	Attila Forgacs	Interaction of Aqueous Bovine Serum Albumin with Silica Aerogel Microparticles
16:50-17:00	O-33	Isabelle Martinier	Using ice to mimic the extra-cellular matrix of arterial tissue: the role of topotactic fibrillogenesis
17:00-17:45	Aerogel term discussion		
17:45-18:15	Core group meeting		
19:00-22:30	Conference dinner		

ECI forum

Friday, 07.07.2023			
09:00-09:40	PL-03	Matjaž Finšgar	Surface analysis for biomaterials
Chair: Tatiana Budtova			
09:40-09:55	O-34	Patrina Paraskevopoulou	Polyurea-crosslinked alginate aerogels – design and synthesis of nanostructured materials with diverse applications
09:55-10:10	O-35	Miguel Sanchez-Soto	Ice-templated gelatin aerogel composites
10:10-10:25	O-36	Maria Carracedo-Perez	Novel production process of sterile bioaerogels using supercritical CO ₂ technology
10:25-10:40	O-37	Arijeta Bafti	Testing of acoustic properties of cellulose aero- and cryogels
10:40-10:55	O-38	Francisco M Fernandes	Biomimetic silk macroporous materials for drug delivery obtained via ice templating
10:55-11:25	Coffee break		
Chair: Stoja Milovanović			
11:25-11:40	O-39	Marta Corvo	Unlocking new possibilities: The synergy between ionic liquids and porous materials
11:40-11:55	O-40	Bernhard Seifried	PGX-Technology: Bioaerogels and exfoliated nano-composites for biomedical applications.
11:55-12:10	O-41	Nilay Gizli	Development of Ionic liquid functionalized silica xerogels as an amine-containing adsorbent for the fixed bed CO ₂ adsorption
12:10-12:25	O-42	Raquel V. Barrulas	Poly(ionic liquid)-based aerogels for CO ₂ capture and conversion: The ionic liquid tour through the periodic table
12:25-13:40	Lunch break		
Chair: Patrina Paraskevopoulou			
13:40-13:55	O-43	Luisa Duraes	Multipurpose cotton-silica aerogel composites fabricated with textile fibers waste
13:55-14:10	O-44	Isabella Jung	Adsorption of Organic Components from Fluid Mixtures on Functionalized Mesoporous Materials: Experiments and Simulation
14:10-14:25	O-45	Stoja Milovanovic	Supercritical solvent Impregnation Technique for the Development of antimicrobial starch-based Aerogels
14:25-14:35	O-46	Floren Radovanović-Perić	Spark ablation as a potential method of metal oxide aerogel formation for energy applications
14:35-15:00	Closing ceremony & Awards		

POSTER PRESENTATIONS

List of poster presentations		
P-01	Marina Borzova	Reinforcement of MTMS/PDMS silica aerogel with modified Nano Fibrillated Cellulose
P-02	Alina Gabriela Rusu	Design of agarose-based aerogels with potential application as wound dressings
P-03	Hanna Judit Szabo	Synthesis of gold nanoparticles and their immobilization in aerogels
P-04	Ana Iglesias-Mejuto	3D-printed and vancomycin loaded aerogels scaffolds for advanced bone tissue engineering
P-05	Bruno Goncalves	Upscaling of Cellulose Aerogel Sheets from Hemp Fibers
P-07	Lorenzo Barozzi	Application of different drying techniques to turn pea waste into aerogel-like ingredients with tailored functionalities

P-08	Dzmitry Tsyhanok	Graphene-based aerogels for electromagnetic applications
P-09	Berat Kececi	Investigation of Independent Parameters for Customization Properties of Precipitated Mesoporous Silica
P-10	Nika Atelšek Hozjan	Development of oxygen-releasing aerogel material for faster wound healing
P-11	Diogo Ferreira	Unleashing the potential of Graphene for CO ₂ capture
P-12	Alina Gabriela Rusu	Physically cross-linked bio-based hydrogels prepared by combining carboxymethyl cellulose with phytic acid
P-13	Mohamed Hamode	Plasmonic based Sensor for Quantification of Chemical Pollutants in Water and its Improvement by Machine Learning
P-14	Miha Berk Bevc	Preparation of scaffolds from polysaccharide aerogels and supercritical foams for tissue engineering
P-15	Fatoş Koç	Icephobic characteristics of organically functionalized silica coatings
P-16	Sebastijan Kovačič	Co-continuous inorganic–organic hybrid materials through emulsion–templating