

Monday, 22 nd July 2024				
11:00	Registration			
12:00	Opening session			
12:30	Plenary 1	M ^a José Cocero	Contributions to the decarbonisation of industry through the transformation of biomass into chemical products	
		Chair: Ignacio Gracia		
14:30	Lunch			
16:00	Oral session 1 – Extraction (10+2 min)			
	Chair: Casimiro Mantell			
	O1	L.C. dos Santos	Unveiling a new lipid source: alternative solvents and technologies in <i>Galleria mellonella</i> extraction	
	O2	M. Cokdinleyen	Green Solvents Extraction of Neuroprotective Compounds from <i>Tetraselmis chuii</i> by Compressed Fluids	
	O3	F.S. Bragagnolo	Gradiente pressurized liquid extraction coupled to in-line solid-phase extraction (PLE-SPE) for extraction, concentration, and separation of valuable compounds from cocoa bean shells	
	O4	H. Candela-Gil	Corn stover biorefinery based on hydrothermal and membrane processes	
	O5	P. Barea	Cascade approach to valorize products rich in proteins by using subcritical water: <i>okara</i> case study	
17:00	Coffee & Posters			
17:30	Plenary 2	Casimiro Mantell	Challenges in scaling up supercritical impregnation of natural extracts for the generation of active packaging: the Im-Pack Project	
		Chairs: Ignacio Gracia		
18:30	Oral session 2 – Extraction and Impregnation (10+2 min)			
	Chairs: Sagrario Beltrán/ M ^a Teresa Sanz			
	O6	I.W. Cordova	Optimization of artemisinin extraction from <i>Artemisia annua</i> L.: using accelerated solvent extraction and biobased solvents	
	O7	L. Verano-Naranjo	Polidioxanone medical filaments impregnated with olive pruning extract by supercritical fluids	
	O8	V.M. Amador-Luna	Maximizing neuroprotection from <i>Citrus x aurantium</i> leaves: sequential extraction and mixture optimization with compressed fluids and NaDES	
	O9	P. Mohammadnezhad	Neuroprotective evaluation and chemical characterization of extracts obtained from <i>Ferula persica</i> L. roots and aerial parts	
	O10	G. Domínguez	Obtaining bioactive terpenoids and phenolic compounds from citrus peels by supercritical fluid extraction followed by ultrasound-assisted extraction combined with natural deep eutectic solvents	
	O11	M.M. Strieder	Is it possible to use eutectic mixtures as co-solvents in SFE? The case of valorization of peanut by-product to obtain lipids and proteins	
	O12	J. Leocádio	Supercritical carbon dioxide impregnation of maritime pine (<i>Pinus pinaster</i> Ait.) wood	
	20:15	City tour		

Tuesday, 23 rd July 2024			
9:00	Oral session 3 - Biomaterials (10+2 min)		
	Chairs: Ángel Martín/Soraya Rodríguez-Rojo		
	O13	F. Carrascosa	Biocompatible hydrogels processing with scCO ₂
	O14	E. Pérez	Effect of CO ₂ partial pressure in the phase diagram of hydrophobic Deep Eutectic Solvents
	O15	M.V. Fernández Cid	Supercritical fluid technology in the development of <i>Cannabinoid</i> -based medicines
	O16	M. Carracedo-Pérez	Biomaterials sterilization: A challenge overcome using scCO ₂
	O17	C. Bento	Antibacterial PEC-aerogels - synthesis of silver nanoparticles using chitosan/pectin as reducing agents
	O18	N. Torrealba	Supercritical fluids as a path to sustainability in chemical recycling of plastics
	O19	J.M. Abelleira-Pereira	Integrating hydrothermal processes for the valorization of aeronautical wastes
	O20	M. Alemán	BIOASIS and High Technology Incubator – An Innovative and Collaborative Platform for the Advancement of Blue Biotechnology and Aquaculture
10:50	Coffee & Posters		
11:30	Plenary 3	Irina Smirnova	Supercritical fluids for aerogel production: a journey from batch to continuous process and upscale perspectives
		Chairs: Carlos García	
12:30	Oral session 4 – Aerogels (10+2 min)		
	Chairs: Carlos García/ Mariana Landín		
	O21	C. Illanes-Bordomás	Design of core-shell aerogel particles for colonic drug delivery using an air-assisted coaxial prilling system
	O22	C. López-Iglesias	Biopolymer aerogels fabricated by combination of supercritical CO ₂ technologies in different biomedical applications
	O23	J.M. García-Vargas	Supercritical CO ₂ and N ₂ for thermoplastic polyurethane foaming: Antishrinking strategy
	O24	A. Iglesias-Mejuto	A strategy to manufacture 3D-printed and sterile bioaerogels for bone tissue engineering
	O25	I. Benito-González	Tuning the microstructure of cellulosic porous materials: foams, cryogels and aerogels
	O26	T. Duong	Sustainable synthesis of beclomethasone-loaded alginate aerogels for pulmonary drug delivery via supercritical fluid technology
	O27	B. Merillas	Reticulated foam-Silica aerogel composites for environmental management
	O28	J. A. P Coelho	Production of micro and nanoparticles of ophthalmic APIs using the supercritical antisolvent process
14:30	Lunch		
16:15	Plenary 4	Carlos Silva	Diffusion coefficients in dense fluids: data analysis, modeling, and theoretical perspectives
		Chair: Herminio da Sousa	
17:15	Coffee & Posters		
18:00	General Assembly meeting		
19:30	Meeting point: Parque de San Lázaro (Bus)		
20:30	Cocktail & Gala dinner		
1:00	Return to Parque de San Lázaro (Bus)		

Wednesday, 24 th July			
10:30	Oral session 5 – Scale-up and Applications (10+ 2 min, IS: 30 min)		
	Chair: Lourdes Calvo		
	IS1	Albertina Cabañas	Supercritical Solution Impregnation in Drug Delivery. Preparation of powder formulations, wound dressings and medicated orthopaedic prosthesis
	O29	H. Ruíz	Use of Supercritical Fluids in the Fight against COVID-19
	O30	G.F. Woerlee	A new Scale-Up to remove TCA from Cork Granules
	IS2	M ^a Dolores Bermejo	CO ₂ valorization in hydrothermal media: from bench scale to continuous operation
11:45	Slot next EIFS		
12:15	Awards		
12:30	Coffee & Posters		