

VII Iberoamerican Conference on Supercritical Fluids (PROSCIBA 2026) + 4th Iberian Meeting on Supercritical Fluids (EIFS 2026)

October 25th-28th, 2026, Centro de Congressos de Aveiro, Aveiro, Portugal

Training Course - October 29th-30th, 2026, Universidade de Aveiro, Aveiro, Portugal

Preliminary Program

	Sunday Oct 25	Monday Oct 26	Tuesday Oct 27	Wednesday Oct 28	Thursday Oct 29	Friday Oct 30		
8h00-8h30		Registration			Training Course	Training Course		
8h30-9h00		Opening Session	Plenary 2 I De Marco	Plenary 3 S Ferreira	Fundamentals of phase equilibria modelling Francisco A Sánchez	Fundamentals of materials preparation with scCO2... Albertina Cabañas		
9h00-9h30								
9h30-10h00		Plenary 1 MJ Cocero	K3 N Gañan	K5 J Martinez	Coffee Break	Coffee Break		
10h00-10h30		Coffee Break	Coffee Break	Coffee Break				
10h30-11h00				Overview of the industrial development of extraction... Julian Martínez	Estimates and economic viability of processes based... Ignacio Gracia			
11h00-11h30		SO1 (4) Reactions&Biorefinery SCFS (4)	SO4 (4) Food/Pharma/Biomed Apps (3) Particles&Materials (1)			SO6 (4) SF Extraction/Fractionation (4)		
11h30-12h00		Lunch	Lunch	Lunch	Lunch			
12h00-12h30								
12h30-13h00		K1 V Marulanda K2 C Silva	K4 C Aymonier SO5 (4) Particles&Materials (2) & AI (1)	Round Table K6 P Jaeger	Fundamentals of aerogels processing with scCO2 Carlos García-González			
13h00-13h30								
13h30-14h00		SO2 (3) React.&Biorefin. (2)/HP&Scale-up (1)	Coffee Break Poster Session 2	SO7 (2) Comb Technol/Alt Solv				
14h00-14h30		Coffee Break Poster Session 1						
14h30-15h00		Coffee Break Poster Session 2	Coffee Break Poster Session 3					
15h00-15h30				SO3 (4) Phase Equilibria & Properties (4)				
15h30-16h00		Prosciba Meeting	Award/Closing Session					
16h00-16h30			Registration		Flucomp Meeting			
16h30-17h00		Cultural Visit						
17h00-17h30	Welcome Reception	Prosciba/EIFS Junior						
17h30-18h00		Conference Dinner						
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22h30-22h00								
22h30-23h00								

Sunday, Oct 25

17h00-18h00	Registration
18h00-20h00	Welcome Reception

Monday, Oct 26

9h00-9h30	Opening Session
9h30-10h30	Plenary 1 P1. Maria J. Cocero (U. Valladolid, Spain) - Towards a Biobased Polyester Platform for Innovative Biorefineries: Ester Bond Cleavage in Supercritical Water
10h30-11h00	Coffee Break
11h00-12h30	SO1 Reactions and biorefinery processes in supercritical media (4)
11h00-11h20	SO1.1 A176. Gustavo Bolaños (U. del Valle, Colombia) - One-Step Chitosan Production from Black Soldier Fly (Hermetia illucens) Exuviae Using Subcritical Water
11h20-11h40	SO1.2 A33. Leonardo Castro de Melo (U. Federal Bahia, Brazil) - Industrial Biomass Residues for Hydrogen Production: Effect of Reaction Medium and Catalytic Performance
11h40-12h00	SO1.3 A142. Lúgia Passos Maia-Obi (U. Federal ABC, Brazil) - Lignin valorization for CO ₂ fixation: Sub and supercritical use and recovery of lignin-based catalyst
12h00-12h20	SO1.4 A36. Adrià López-Pontanilla (ICMAB, Spain) - ZIF-8 supported copper catalysts for thermocatalytic CO ₂ hydrogenation to methanol: role of metal-support interactions and Cu ⁰ /Cu ⁺ active sites
12h30-14h00	Lunch break
14h00-14h30	Keynote 1 K1. Victor Marulanda-Cardona (U. del Valle, Colombia) - Biorefinery based on subcritical water-ethanol hydrolysis and delignification: insights on process model and life cycle considerations for scaling-up purposes
14h30-15h00	Keynote 2 K2. Carlos M. Silva (U. Coimbra, Portugal) - To be defined...

15h00-16h00	SO2 Reactions and biorefinery processes in supercritical media (3)
15h00-15h20	SO2.1 A113. Eduardo Pérez (U. Complutense Madrid, Spain) - Chemical Recycling of PET-Based wastes by Solvolysis Assisted by Compressed Gases
15h20-15h40	SO2.2 A167. Francisco González (U. Castilla-La Mancha, Spain) - Supercritical CO2 to Functionalizable Soybean Oil Monomers for Radiopaque NIPUs
15h40-16h00	SO2.3 A23. Danilo Cantero (U. Valladolid, Spain) - Bridging the Gap in Hydrothermal Biomass Processing: Evaluation of Severity Factor for Scaling Up from Batch to Continuous Supercritical Fluid Systems and Downstream Polymer Integration
16h00-17h00	Coffee Break + Poster Session 1
17h00-18h30	SO3 High-pressure process engineering and scale-up (1) + Phase equilibria and thermophysical/transport properties (3)
17h00-17h20	SO3.1 A71. Pedro Barea-Gómez (U. Burgos, Spain) - Sustainable valorization of oat okara via semi-continuous subcritical water hydrolysis: techno-economical assessment and industrial scale-up
17h20-17h40	SO3.2 A77. Francisco A. Sánchez (U. Nacional Córdoba, Argentina) - Modeling homologous organic families for robust prediction of high-pressure phase equilibria in biomass-derived systems
17h40-18h00	SO3.3 A94. Fèlix Lovell (U. Rovira Virgili, Spain) - Evaluating CO2 Capture From Natural Gas At High Pressure Reservoir Conditions Using Protic Ionic Liquids
18h00-18h20	SO3.4 A177. Isabel Mejía (U. del Valle, Colombia) - Solubility Enhancement of Calcium Phosphate and Calcium Gluconate in Water Using Compressed CO2: Toward Calcium Fortification of Beverages and Food Products
18h30-20h00	Prosciba/EIFS Junior

Tuesday, Oct 27

9h00-10h00	Plenary 2 P2. Iolanda De Marco (U. Salerno, Italy) - Particle Formation through different supercritical fluid-based processes
10h00-10h30	Keynote 3 K3. Nicolás Gañán (U. Nacional Córdoba, Argentina) - Active aerogels by combined supercritical CO2-assisted drying and impregnation/deposition for medical and pharmaceutical applications: Advances and challenges
10h30-11h00	Coffee Break
11h00-12h30	SO4 Food, nutraceutical, pharmaceutical, and biomedical applications (3) + Particle formation and materials processing (1)
11h00-11h20	SO4.1 A26. Susana Gomes (U. Santiago de Compostela, Spain) - Tailoring aerogels dimensions by integrating 3D printing and supercritical drying technologies with artificial neural networks tools
11h20-11h40	SO4.2 A40. Simone Costa Sá (U. Católica Portuguesa, Portugal) - A single workflow for the decellularization and sterilization of pancreatic tissue through supercritical CO2 technology
11h40-12h00	SO4.3 A85. Rama Hafian (U. Complutense Madrid, Spain) - Eradication of Clinically Relevant Biofilms on Prosthesis
12h00-12h20	SO4.4 A38. Noelia Machado (U. Cadiz, Spain) - Supercritical fluid impregnation of PLA/PBAT/TPS films with olive leaf extract: Process scale-up and application in minced meat packaging
12h30-14h00	Lunch break
14h00-14h30	Keynote 4 K4. Cyril Aymonier (ICMB-CNRS, France) - Artificial Intelligence in Supercritical and High-Pressure Research: From Thermophysical Data Prediction to Autonomous Materials Synthesis
14h30-16h00	SO5 Particle formation and materials processing (2) + Artificial Intelligence in supercritical and high-pressure research (1)+ Neural Networks (1)
14h30-14h50	SO5.1 A93. Ana Aguiar-Ricardo (U. Nova Lisboa, Portugal) - Supercritical CO ₂ -Assisted Spray Drying of Liposomal Systems: A Versatile Platform for Inhalable Delivery of Hydrophobic Compounds and Enzymes
14h50-15h10	SO5.2 A161. David Piña-Muñoz (ICMAB, Spain) - Engineering highly porous amorphous solid dispersions of ibrutinib via compressed antisolvent precipitation
15h10-15h30	SO5.3 A87. Carlos Illanes-Bordomás (U. Santiago de Compostela, Spain) - Use of AI tools for the development of drug delivery formulations based on aerogels
15h30-15h50	SO5.4 A171. José R. Botelho (U. Coimbra, Portugal) - Bayesian Digital Twin for Pressurized Fluid Extraction of Uncaria tomentosa: A Physics-Informed Neural Network Approach
16h00-17h00	Coffee Break + Poster Session 2
17h00-17h30	Prosciba Meeting
17h30-20h30	Cultural Visit
20h30-23h00	Conference Dinner

Wednesday, Oct 28

9h00-10h00	Plenary 3 P3. Sandra R.S. Ferreira (U. Federal Santa Catarina, Brazil) - Sustainable strategies for extraction and fractionation of bioactive and functional ingredients: Biorefinery of natural products and co-products
10h00-10h30	Keynote 5 K5. Julian Martínez (UNICAMP, Brazil) - Valorization of the guarana processing chain – extraction and impregnation with pressurized fluids
10h30-11h00	Coffee Break
11h00-12h30	SO6 Supercritical fluid extraction/fractionation (4)
11h00-11h20	SO6.1 A169. Jerry King (Critical Fluid Symposia/U. Arkansas, USA) - Sub- and Super-critical Fluid Processing of Cannabis/Hemp- Optimization and Use of Post Extraction Technologies to Enrich Cannabinoid Extract Content
11h20-11h40	SO6.2 A43. João Baixinho (IBET, Portugal) - Valorization of winery waste streams: towards a bio-based novel fungicide
11h40-12h00	SO6.3 A49. Luis Olivera-Montenegro (U. San Ignacio de Loyola, Peru) - Sustainable Valorization of Quinoa through Supercritical CO ₂ Defatting and Green Industrial Production of Functional Protein Hydrolysate
12h00-12h20	SO6.4 A143. Mariana Martínez-Ávila (Tecnológico de Monterrey, Mexico) - Supercritical CO ₂ extraction effects on enzymatic and auto-oxidative stability in vegetable oil lipidomics
12h30-14h00	Lunch break
14h00-15h00	RT Round Table (Coord. Jerry King) - Sub- and Super-critical Fluids in the Cannabis/Hemp Technology Platform
15h00-15h30	Keynote 6 K6. Philip Jaeger (T.U. Clausthal, Germany) - Near and supercritical CO2 in sustainable energy generation
15h30-16h10	SO7 Combined sustainable technologies and alternative solvents (2)
15h30-15h50	SO7.1 A91. Ana N. Nunes (IBET, Portugal) - Process Intensification of B-Phycocerythrin Recovery Using Pressurized Water Extraction from the Red Microalgae Porphyridium cruentum
15h50-16h10	SO7.2 A84. Minxing Zhang (CSIC - U. Autonoma Madrid) - Process intensification in green extraction: compressed fluids and subcritical water applied to Ilex guayusa
16h15-17h00	Coffee Break + Poster Session 3
17h00-18h00	Award/Closing Session
18h00-18h30	Flucomp Meeting