



IBEREO 2024 - The Iberian Meeting on Rheology

Wednesday, 4 th	
8:00 – 9:00	Registration
9:00 – 13:00	Rheology Course
13:00 – 14:00	Free Lunch
16:30 – 17:30	GER and SPR meetings
17.30 – 18.15	GER award – Prof. Elvira Costell
18:15 – 19:30	Welcome drink

Thursday, 5 th	
8:00 – 9:00	Registration
9:00 – 9:15	Opening session Room: <i>Sala de Atos</i>
9:15 – 10:15	Plenary Lecture Mehdi Habibi Normal force rheology and Poynting effect in soft foods Wageningen University (Netherlands) Room: <i>Sala de Atos</i>
SESSION 1 Food Rheology and Bio-rheology Room: <i>Sala de Atos</i> Chairs: <i>Anabela Raymundo; María Jesús Hernández</i>	
10:15	Rheology of a model salad dressing formulated as a microfluidized pea fiber- filled emulsion <i>Presenting author: José Muñoz, Universidad de Sevilla</i>
10:30	Impact of fermentation conditions on the rheological properties of up-cycled Portuguese cole stems paste <i>Presenting author: Sara Simões, LEAF, ISA, Universidade de Lisboa</i>
10:45	pH and temperature dependent viscosity of carboxymethylated starch in presence of chickpea <i>Presenting author: Jelica Kovacevic, University of Innsbruck</i>
11:00 – 11:30	Coffee-break
SESSION 2 Food Rheology and Bio-rheology Room: <i>Sala de Atos</i> Chairs: <i>Isabel Sousa; José Muñoz</i>	

11:30	Gelation process of a sweet product with apple pomace <i>Presenting author: Ândria Viegas, LEAF, ISA, Universidade de Lisboa</i>
11:45	Texture mapping of characteristic food samples from rheological and tribological data <i>Presenting author: Fabian Meyer, Thermo Fisher Scientific</i>
12:00	Effect of a thickening agent on rheology of 3D printed gels from red seaweed <i>Presenting author: Sónia Oliveira, LEAF, ISA, Universidade de Lisboa</i>
12:15	Rheological behaviour and structural properties of algae-enriched pea, lupin and chickpea hummus <i>Presenting author: José Matheus, LEAF, ISA, Universidade de Lisboa</i>
12:30	Production of Cowpea Miso: Effect of Fermentation Time on its Rheological Properties <i>Presenting author: Rafaela Santos, LEAF, ISA, Universidade de Lisboa</i>
12:45	Viscoelastic insights into human tears and artificial teardrops <i>Presenting author: Juan Vega, Instituto de Estructura de la Materia (CSIC)</i>
13:00 – 14:30	Lunch POSTER SESSION 1
15:30 – 18:30	Boat trip around Belém
19:30	Gala Dinner Exhibition Pavilion (ISA)

Friday, 6 th	
9:00	Keynote Lecture Ricardo Andrade Rheological behaviour of nanostructured complex fluids with two-dimensional (2D) materials Mackenzie Presbyterian University (Brasil) Room: <i>Sala de Atos</i>
	SESSION 3A Polymer Rheology (solutions, gels, solids, melts and composites) Room: <i>Sala de Atos</i> Chairs: <i>Antxon Santamaría; Loic Hilliou</i>
	SESSION 3B Suspensions, Emulsions, Foams and Interfacial Rheology & Non-Newt. Fluid Mec. Comp. Rheology Room: <i>Sala 12</i> Chairs: <i>Catarina Leal; Vítor Alves</i>
9:30	3D-Printed Personalized Hydrogel Patch for Skin Lesion Prevention and Its Features: the role of rheology <i>Presenting author: Angélica Graça, Faculty of Pharmacy, Universidade de Lisboa</i>
9:45	Synthesis and Rheological Characterization of Self-Healing Injectable Biocompatible Hydrogels <i>Presenting author: Jesús García Gutiérrez, Faculty of Sciences, University of Granada</i>
10:00	A comprehensive rheological and texture protocol to optimize an extrusion-based 3D printing process for producing topical patches <i>Presenting author: Sara Bom, Faculty of Pharmacy, Universidade de Lisboa</i>
10:15	Deciphering the rheological properties of 3D printed semi-interpenetrated hydrogels <i>Presenting author: Itziar Insua, POLYMAT - Universidad del País Vasco (UPV/EHU)</i>
10:30	Rheological tests for the optimization of bioink composition and printing parameters in tissue 3D-printing <i>Presenting author: David Magana; NOVA School of Science and Technology</i>
	Anhydrous phase change emulsions for cryogenic applications <i>Presenting author: Adrián Tenorio-Alfonso, Universidad de Huelva</i>
	Rheology of a blood analogue based on alginate microparticles <i>Presenting author: Ana Moreira, Faculdade de Engenharia, Universidade do Porto</i>
	Rheological, microstructural and phase behaviour of oil-in-oil emulsions <i>Presenting author: Clara Delgado-Sánchez, Universidad de Huelva</i>
	Microrheology of novel cellulose stabilized oil-in-water emulsions <i>Presenting author: Bruno Medronho, Faculty of Sciences and Technology, University of Algarve</i>
	New formulas in mayonnaise production – a new rheological perspective for systems with yeast protein extract (YPE) <i>Presenting author: Pedro Coelho, LEAF, ISA, Universidade de Lisboa</i>

10:45	Physical-chemical and functional properties of hyaluronic acid-like polysaccharide produced by <i>Vibrio</i> sp. Mo245 from glycerol <i>Presenting author: Beatriz Almeida; NOVA School of Science and Technology</i>	Emulsified thermoreversible oleogels to encapsulate lipid-soluble bioactive agents <i>Presenting author: Yolanda López, Universidad de Sevilla</i>
11:00 11:30	Coffee-break	
11:30	On the estimation of lignin's molecular weight by intrinsic viscosity measurement: effect of the extraction conditions <i>Presenting author: Maria Graça Rasteiro, University of Coimbra</i>	Evaluating new modelling strategies for the extrusion blow molding operation <i>Presenting author: Miguel Nóbrega, University of Minho</i>
11:45	Greener composites for electromagnetic shielding applications <i>Presenting author: Ana Ares-Pernas, Universidade da Coruña</i>	Effects of hydrophobized fumed silica particles on the rheological and thermal properties of phase change material pickering emulsion <i>Presenting author: Sebastián Sanabria, Universidad de Huelva</i>
12:00	Rheological behavior and microstructure of <i>Chlorella</i> / k-carrageenan/starch gels <i>Presenting author: Sheyma Khemiri, LEAF, ISA, Universidade de Lisboa</i>	Interfacial rheology in crude oil production <i>Presenting author: Paulo de Souza Mendes, Pontificia Universidade Catolica do Rio de Janeiro</i>
12:15	Rheological Properties of Alginate-Based Magnetic Hydrogels <i>Presenting author: Modesto López-López, Universidad de Granada</i>	Electrorheology as a support tool for understanding the electrotribological behavior of nanocellulose-based biolubricants <i>Presenting author: Samuel Silva, Universidad de Huelva</i>
12:45	Enhancing Mechanical and Thermoresponsive Properties of Polysaccharide-based Injectable Hydrogels for Biomedical Applications with Cellulose Nanocrystals <i>Presenting author: Susete Fernandes, CENIMAT/i3N, NOVA School of Science and Technology</i>	Effects of graphene oxide nanosheets in xanthan gum <i>Presenting author: Monica Naccache, Pontificia Universidade Catolica do Rio de Janeiro</i>
13:00	Experimental protocols for addressing the viscoelasticity of vinylogous urethane vitrimers <i>Presenting author: Robert Aguirresarobe, POLYMAT - Universidad del Pais Vasco (UPV/EHU)</i>	Interfacial rheology and emulsifying properties of phycocyanin and chia mucilage <i>Presenting author: María Vela-Albarrán, Universidad de Sevilla</i>
13:00 14:30	Lunch POSTER SESSION 2	
14:30	Keynote Lecture Nataša Šijakovic Vujicic Thixotropic oxalamide gelators of edible oil and w/o emulsions Boškovic Institute (Zagreb, Croatia) Room: <i>Sala de Atos</i>	
SESSION 4A Polymer rheology (solutions, gels, solids, melts and composites) Room: <i>Sala de Atos</i> Chairs: <i>Pedro Partal; Maria Cristiana Nunes</i>		SESSION 4B Suspensions, Emulsions, Foams and Interfacial Rheology & Microfluidics, Exp. Met. New Adv. Rheology Room: <i>Sala 12</i> Chairs: <i>Antonio Guerrero; Francisco Galindo</i>
15:00	Rheology as a powerful tool in tuning mechanical properties of nanocomposites <i>Presenting author: Catarina Leal, ISEL and Cenimat/i3N</i>	High-speed rheo-microscopy in magnetorheological fluids under triaxial unsteady magnetic fields <i>Presenting author: Guillermo Camacho, University of Granada</i>

15:15	Assessment of electrospun cellulose acetate/silica hybrid nanocomposites as multifunctional ingredients in semi-solid lubricants: impact on the rheological and tribological properties <i>Presenting author: Manuel Gallego, Universidad de Huelva</i>	Rheological study of 3D printed semi interpenetrated networks <i>Presenting author: Jon Ayestarán, POLYMAT -Universidad del Pais Vasco (UPV/EHU)</i>
15:30	Interplay between hybrid carrageenan chemical structures and their hydrogel rheological properties <i>Presenting author: Loic Hilliou, IPC, University of Minho</i>	Sport and Rheology <i>Presenting author: Carlos Fernández, TA Instruments</i>
15:45	Torsional-axial rheometers for characterization of anisotropic viscoelastic materials <i>Presenting author: José Rodríguez, Anton Paar Germany GmbH</i>	Graph neural network prediction of force chain networks in dense suspensions: a rheological perspective <i>Presenting author: João Maia, Case Western Reserve University, USA</i>
16:00	In Situ Thermoresponsive Hydrogel: A Novel Approach for Intratumoral Injection in Cancer Therapy <i>Presenting author: Rafaela Martins, iMed.U.Lisboa, Faculty of Pharmacy, University of Lisbon</i>	Layer patterns in sheared magnetorheological fluids <i>Presenting author: José Morillas, University of Granada</i>
16:15 16:45	Coffee-break	
SESSION 5 Industrial Rheology and Processing Room: <i>Sala de Atos</i> Chairs: <i>M. Graça Rasteiro; José María Franco</i>		SESSION 4B (cont) Microfluidics, Experimental methods, and New Advances in Rheometry Room: <i>Sala 12</i> Chairs: <i>Antonio Guerrero; Francisco Galindo</i>
16:45	Rheological aspects of foaming process in 3D printing <i>Presenting author: Alodi Pascal, POLYMAT - Universidad del Pais Vasco (UPV/EHU)</i>	Investigation of the dynamics performance of Rheinforced Cork Composites <i>Presenting author: M. Montenegro, Faculdade de Engenharia da Universidade do Porto</i>
17:00	Could the poly(lactic acid) be a ductile material? Rheological and mechanical study <i>Presenting author: Itxaso Calafel, POLYMAT - Universidad del Pais Vasco (UPV/EHU)</i>	Experimental Investigation of the Stability of Electro Spray Cone-Jet Formation for Viscoelastic Fluids <i>Presenting author: Pedro Rijo, Faculdade de Engenharia da Universidade do Porto</i>
17:15	On the progress of 3D printed hydrogels through Fourier Transform rheology <i>Presenting author: Mercedes Fernández, POLYMAT - Universidad del Pais Vasco (UPV/EHU)</i>	Magnetic Field Effects on Blood Analogues seeded with magnetic particles <i>Presenting author: Rui Rodrigues, Faculdade de Engenharia da Universidade do Porto</i>
17:30	Effect of temperature, pressure and solid fraction on aqueous and oil suspensions through rheological characterization <i>Presenting author: Luis Ardila, Federal University of Technology-Paraná – UTFPR</i>	Exploring the Non-Newtonian Effects of Pulsatile Haemodynamics Around Micropillars <i>Presenting author: Tomás Rodrigues, Faculdade de Engenharia da Universidade do Porto</i>
17:45 18:30	Closing Session and Awards	