

SCIENTIFIC PROGRAM

Dear colleagues and friends,

The 5th EPNOE Junior Scientist Meeting 2022 will be held from 8th to 9th of September 2022 at the University of Aveiro, Aveiro, Portugal, and chaired by scientists from Portugal, Spain, and Poland. This is a biannually organized conference designed for young researchers (i.e., PhD students, Post-Doctoral Researchers, Junior Assistant Professors at an early stage of their scientific career) to meet and build their personal network in the polysaccharide field, while also presenting their recent work and brainstorming the direction and future of polysaccharides research. Senior scientists and industrial researchers are invited to share their experience and knowledge to the new generation of scientists.

Let's get together to build a strong and fruitful EPNOE community!

We wish you a fruitful meeting and a pleasant stay in Aveiro!

On behalf of the organizing committee,

Carla Vilela and Idalina Gonçalves (University of Aveiro, Portugal)

Anna Laromaine (Institut Ciència de Materials de Barcelona (ICMAB-CSIC, Spain)

Kamila Kapuśniak and Arkadiusz Żarski (Jan Dlugosz University, Poland)



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EPNOE YOUNG SCIENTIST AWARD

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VENUE

Aveiro is one of the most beautiful regions in the country with beaches, mountains, rivers, and a lagoon (Ria de Aveiro). Aveiro is the third Portuguese district with the largest number of municipalities, and it brings together industry, business, tourism, sports, architectural, natural heritage, and a university that is a great example of contemporary Portuguese Architecture with most of the buildings designed by some of the most important Portuguese contemporary architects. In terms of gastronomy, Aveiro has some delights from the sea to offer, namely shellfish, fresh fish, and eels, and the delicious sweet *ovos moles*.

www.visitportugal.com/en/content/visit-aveiro

THE CONFERENCE WILL BE HOSTED BY THE UNIVERSITY OF AVEIRO (PORTUGAL)

Website: <https://www.ua.pt/>

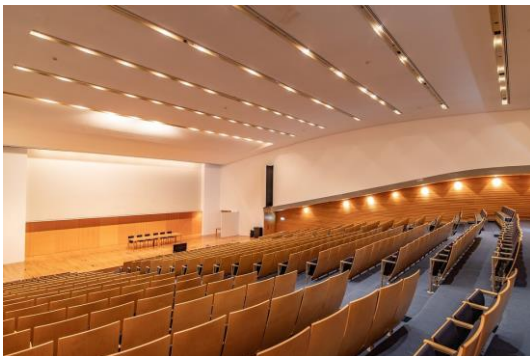
Institutional video: www.youtube.com/watch?v=wHsG545Ovew

CENTRAL AND RECTORATE BUILDING



<https://goo.gl/maps/jTXdKaxucZP332mH9>

ROOM 1 | AUDITÓRIO RENATO ARAÚJO



ROOM 2 | SALA DE ATOS ACADÉMICOS



THEMATIC SESSIONS

	Session title	Organizers
S1	Structure-function of polysaccharides	Caterina Czibula (<i>TU Graz, Austria</i>) Mónica Simões (<i>Almascience, Portugal</i>)
S2	Functionalization and modification of polysaccharides	Martin Gericke (<i>Jena University, Germany</i>) Khouloud Tilouche (<i>IMT Mines Alès, France</i>)
S3	Biorefinery and biomass-derived polysaccharides	Rupert Kargl (<i>TU Graz, Austria</i>) Andreea Scutaru (<i>ICMPP, Romania</i>)
S4	Polysaccharide-based materials	Michał Pancerz (<i>University of Agriculture in Krakow, Poland</i>) Marion Négrier (<i>CEMEF, France</i>) Diogo Costa (<i>German Aerospace Center, Germany</i>) Carmen Popescu (<i>ICMPP, Romania</i>)
S5	Polysaccharides in agri-food science	Sílvia Petronilho (<i>UTAD, Portugal</i>) Joana Lopes (<i>University of Aveiro, Portugal</i>) Malwina Wojcik (<i>Jan Dlugosz University, Poland</i>)
S6	Polysaccharides for biomedical applications	Roberta Censi (<i>Camerino University, Italy</i>) Coraline Chartier (<i>CEMEF Mines ParisTech, France</i>) Lénaïc Soullard (<i>Université Grenoble Alpes, France</i>)
S7	Out of the box – new research angles and applications of polysaccharides	Katja Heise (<i>Aalto University, Finland</i>) Hubert Hettegger (<i>BOKU, Austria</i>)
S8	Polysaccharide-based carriers for drug delivery systems	Roberto Aguado (<i>University of Girona, Spain</i>) Tânia Almeida (<i>University of Aveiro, Portugal</i>)
S9	Practical steps towards industrially relevant research on polysaccharides	Blaise Tardy (<i>Khalifa University, UAE/ Aalto University, Finland</i>) Marco Beaumont (<i>BOKU, Austria</i>) Caio G. Otoni (<i>Federal University of São Carlos, Brazil</i>)

SCIENTIFIC PROGRAM

DAY 1 | THURSDAY | SEPTEMBER 8th, 2022

8:30-9:00	REGISTRATION & POSTER SET-UP DAY 1	
9:00-9:20	ROOM 1 OPENING CEREMONY <i>Chairs: Carla Vilela, Idalina Gonçalves, Anna Laromaine, Kamila Kapuśniak & Arkadiusz Żarski</i> Artur Silva (Vice-rector of the University of Aveiro) João Coutinho (Director of CICECO – Aveiro Institute of Materials) Pedro Fardim (EPNOE President)	
9:20-10:00	ROOM 1 Plenary lecture 1 Peter Pan, Giotto and Sharks as Inspiration for Young Researchers <i>Pedro Fardim, KU Leuven, Belgium</i> <i>Chair: Idalina Gonçalves</i>	
PARALLEL SESSIONS		
ROOM 1 AUDITÓRIO RENATO ARAÚJO		ROOM 2 SALA DE ATOS ACADÉMICOS
<u>SESSION 1</u> : Structure-function of polysaccharides <i>Chairs: Caterina Czibula & Mónica Simões</i>		<u>SESSION 2</u> : Functionalization and modification of polysaccharides <i>Chairs: Martin Gericke & Khoulood Tilouche</i>
10:00-10:30	Keynote 1 The bond between paper fibers: a journey through adhesion <i>Robert Schennach, TU Graz, Austria</i>	10:00-10:30 Keynote 2 Highly Selective Mitsunobu Reaction of Cellulose with Hydroxycinnamic Acids <i>Thomas Elschener, TU Dresden, Germany</i>
10:30-11:10	COFFEE-BREAK & POSTER SESSION DAY 1	
11:10-11:30	S1-O1 Structure-function relationships of pectin in pea starch composite films <i>Wenqiang Bai, Aarhus University, Denmark</i>	11:10-11:30 S2-O1 Preparation of cellulose carbamate-based chiral stationary phases for the resolution of enantiomers by HPLC <i>Hubert Hettegger, BOKU, Austria</i>
11:30-11:50	S1-O2 Predicting and tailoring of fibre-fibre joint strength and bulk mechanical properties using model cellulose materials <i>Nadia Asta, KTH, Sweden</i>	11:30-11:50 S2-O2 Synthesis, characterization and subsequent modification of pectin hydrazides <i>Katja Geitel, University Jena, Germany</i>

11:50-12:10	S1-O3 Polysaccharide thin films as a platform technology to assess xylanase activity <i>Jana Schaubeder, TU Graz, Austria</i>	11:50-12:10	S2-O3 Towards a better understanding of microbial mechanisms involved during field retting of hemp “Cannabis Sativa” <i>Eliane Bou Orm, IMT Mines Alès, France</i>
12:10-12:15	S1-PI1 3D Imaging and structural info determination of the chiral nematic phase of cellulose nanocrystals by non-linear optical microscopy techniques <i>Thibaut Legat, KU Leuven, Belgium</i>	12:10-12:15	S2-PI1 Topochemical design of cellulose-based carriers for immobilization of endo-xylanase <i>Pieter De Wever, KU Leuven, Belgium</i>
12:15-12:20	S1-PI2 Hypocholesterolemic properties of galactomannans, arabinogalactans and melanoidins and their dependence on coffee roasting and grinding level <i>Fernanda Machado, University of Aveiro, Portugal</i>	12:15-12:20	S2-PI2 Study on the degradation of alginate and chitosan by high pressure processing (HPP) and pulsed electric fields treatment (PEF) <i>Pedro Rivero Ramos, Northumbria University, United Kingdom</i>
		12:20-12:25	S2-PI3 Cellulose nanocrystals modification by grafting from ring opening polymerization of a cyclic carbonate <i>Michaël Lalanne-Tisné, KU Leuven, Belgium</i>
12:30-14:00	LUNCH BREAK		
ROOM 1 AUDITÓRIO RENATO ARAÚJO		ROOM 2 SALA DE ATOS ACADÉMICOS	
<u>SESSION 3</u> : Biorefinery and biomass-derived polysaccharides <i>Chairs: Rupert Kargl & Andreea Scutaru</i>		<u>SESSION 4</u> : Polysaccharide-based materials <i>Chairs: Michał Pancerz, Marion Négrier, Diogo Costa & Carmen Popescu</i>	
14:00-14:30	Keynote 3 Marine biomass-based polysaccharide biorefinery optimization <i>Blaž Likozar, National Institute of Chemistry, Slovenia</i>	14:00-14:30	Keynote 4 Bio-aerogels: new materials born in the 21 st century <i>Tatiana Budtova, CEMEF, France</i>
14:30-14:50	S3-O1 Preparation of bacterial cellulose using enzymatic hydrolysate of olive pomace as carbon source <i>Ceren Sagdic-Oztan, ITU, Turkey</i>	14:30-14:50	S4-O1 Facilely prepared starch-based hydrogel for flexible electronics: strain-sensitive batteries and self-powered sensors <i>Fengwei Xie, Newcastle University, United Kingdom</i>

14:50-15:10	S3-02 Biobased polysaccharide extracted from food industry waste use as paper additive <i>Laura Andze, LSIWC, Latvia</i>	14:50-15:10	S4-02 Stimuli-responsive actuators based on cellulose nanofibers <i>Lisa Lopes da Costa, INRAE, France</i>
15:10-15:30	S3-03 Innovative processes for Xylans extraction and valorization using deep eutectic solvents <i>Armando Silvestre, University of Aveiro, Portugal</i>	15:10-15:30	S4-03 Dissolution and spinning of cellulose/protein hybrid fibers using Ioncell process <i>Wenwen Fang, Aalto University, Finland</i>
15:30-15:35	S3-PI1 On the use of high hydrostatic pressure as a promising pre-treatment for alginate extraction process <i>Hyllenne Bojorges, IATA-CSIC, Spain</i>	15:30-15:35	S4-PI1 All cellulosic hierarchical 3D composites for asymmetrical electrochemical capacitors anode <i>Julien Lemieux, KU Leuven, Belgium</i>
15:35-15:40	S3-PI2 Bio-based routes to γ -valerolactone using multifunctional nano and microcrystalline zeotype catalysts containing hafnium <i>Margarida Antunes, University of Aveiro, Portugal</i>	15:35-15:40	S4-PI2 Surface Coating of Cellulose Nanocrystals with Plant-Derived Additives <i>Francesco D'Acierno, INRAE, France</i>
15:40-16:20	COFFEE-BREAK & POSTER SESSION DAY 1 & PICTURE TIME		
ROOM 1 AUDITÓRIO RENATO ARAÚJO		ROOM 2 SALA DE ATOS ACADÉMICOS	
<u>SESSION 5: Polysaccharides in agri-food science</u> <i>Chairs: Sílvia Petronilho, Joana Lopes & Malwina Wojcik</i>		<u>SESSION 4: Polysaccharide-based materials</u> <i>Chairs: Michał Panczerz, Marion Négrier, Diogo Costa & Carmen Popescu</i>	
16:20-16:50	Keynote 5 Fibre and prebiotic substances from starch in human nutrition <i>Janusz Kapusniak, Jan Dlugosz University, Poland</i>	16:20-16:40	S4-04 Production of bio-based materials for food packaging applications from minimally-processed red seaweeds <i>Vera Cebrián Lloret, IATA-CSIC, Spain</i>
16:50-17:10	S5-01 Structural integrity of the main biopolymers present in stale white bread <i>Wanxiang Guo, Aarhus University, Denmark</i>	16:40-17:00	S4-05 Development of cellulose films by means of the Ioncell® technology, as an alternative to synthetic films <i>Eva González Carmona, Aalto University, Finland</i>
17:10-17:30	S5-02 Developing cellulose-based multi-layered packaging with mass transfer properties tailored to food requirements <i>Emma Pignères, University of Montpellier, France</i>	17:00-17:20	S4-06 Development of active coffee fruit cascara-derived bioplastics <i>Gonçalo Oliveira, University of Aveiro, Portugal</i>

17.30-17:50	S5-O3 Flexible, water tolerant, UV-protective, and antioxidant starch-based films derived from potato chips industry byproducts Ana Marta Peixoto , <i>University of Aveiro, Portugal</i>	17:20-17:40	S4-O7 3D printing and alignment of NFC-Alginate nanocomposites with highly tunable properties Florian Lackner , <i>TU Graz, Austria</i>
17:50-17:55	S5-PI1 The antidiabetic effect of grape pomace polysaccharide-polyphenol conjugates: from wastes towards functional food additives Ana Fernandes , <i>FCUP, Portugal</i>	17:40-17:45	S4-PI3 Multilayers of α -glucans with engineered surface pattern and functionalities Aurore Delvart , <i>INRAE, France</i>
18:00-19:00	ROOM 2 Meeting of the EPNOE Junior Team		
20:00-23:00	DINNER & NETWORKING Hotel Mélia Ria, https://goo.gl/maps/Rnufwivps4RTU8EeA Announcement of the EPNOE Junior Scientist Award <i>Chair: Laura Nyström (EPNOE Vice-President for Membership and Awards)</i>		

POSTER COMMUNICATIONS – DAY 1

	Title	Presenter
S1-P1	Antioxidant activity of free and adsorbed coffee low molecular weight compounds in polysaccharides and melanoidins	Maria Inês Bonifácio <i>University of Aveiro, Portugal</i>
S1-P2	Investigation of the topographical distribution of carboxyl groups in cellulose after heterogeneous carboxymethylation	Paul Bogner <i>University of Innsbruck, Austria</i>
S1-P3	Red and black currant pectin – properties and possible use in food industry	Michał Pancerz <i>University of Agriculture in Krakow, Poland</i>
S1-P4	Tracking of liquid movement in bulky viscose fibre networks using infrared thermography	Thomas Harter <i>TU Graz, Austria</i>
S1-P5	New tools for designing food ingredient structures	Oksana Mykhalevych <i>University of Copenhagen, Denmark</i>
S1-P6	Salt pan waters – an exquisite source of sulfated polysaccharides	Sónia Ferreira <i>University of Aveiro, Portugal</i>
S1-P7	Structure-Activity Relationship Studies of Common Chitosan Derivatives; Synthesis, Characterization, Evaluation of Antimicrobial Activity	Sankar Rathinam <i>University of Iceland, Iceland</i>
S1-P8	Phase separation and stability of cotton and bacterial cellulose nanocrystals in the presence of various salts	Vladimir Grachev <i>KU Leuven, Belgium</i>
S1-P9	Surface Free Energy of Cellulose Nanofibers obtained from Inverse Gas Chromatography and its Effect on Emulsifying Capacity	Tomohito Yagita <i>The University of Tokyo, Japan</i>
S1-P10	Ionic liquids and Polysaccharides – a study on interfacial interactions	Lukas Pachernegg <i>TU Graz, Austria</i>
S1-P11	Electrolyte-controlled permeability in nanocellulose-stabilized emulsions	Katja Heise <i>Aalto University, Finland</i>
S2-P1	Enantioseparation on non-conventional cellulose-type chiral stationary phases by high-performance liquid chromatography	Anna Lehrhofer <i>BOKU, Austria</i>
S2-P2	Click immobilization of cellulose carbamate-based chiral selectors onto silica gel for enantiomer separation by HPLC	Cuong Viet Bui <i>BOKU, Austria</i>
S2-P3	Transesterification of cellulose with (un)activated esters in superbase ionic liquids	Aleksandar Todorov <i>University of Helsinki, Finland</i>
S2-P4	Synthesis of C-glycosidic entities for the modification of polysaccharide matrixes	Tobias Dorn <i>TU Graz, Austria</i>
S2-P5	Impact of RfbC and FucS on the composition of the released polysaccharides of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803	João Pissarra <i>Universidade do Porto, Portugal</i>

S2-P6	Chitosan-hydroxycinnamic acid conjugates: Optimization of the synthesis and investigation of the structure activity relationship	Vivien Nagy <i>University of Iceland, Iceland</i>
S2-P7	Preparation and characterization of cationic regenerated cellulose fibers with improved dyeing properties	Filipe Matos <i>University of Aveiro, Portugal</i>
S2-P8	A new organic phosphoroselenoates in functionalisation of polyols	Sandra Zarske <i>Jan Dlugosz University, Poland</i>
S2-P9	Soluble dietary fiber from modified potato starch and its influence on the indigenous microflora of the human gastrointestinal tract	Arkadiusz Zarski <i>Jan Dlugosz University, Poland</i>
S2-P10	Synthesis of methacrylated carboxymethylcellulose for the design of hydrogels dedicated to biomedical applications	Lénäic Soullard <i>CEA, France</i>
S2-P11	Photopolymerizable coatings as a strategy for improving the hydrophobicity of paper materials for packaging applications	Fábio Silva <i>University of Aveiro, Portugal</i>
S2-P12	Efficient new extraction route for highly charged phosphorylated CNC	Marcel Kröger <i>Aalto University, Finland</i>
S2-P13	Water Soluble Chitotriazolan Derivatives and Common Chitosan Derivatives Substituted with 1,2,3-Triazole for Antibacterial Activity	Sankar Rathinam <i>University of Iceland, Iceland</i>
S2-P14	SolarSafe	Daniel Langerreiter <i>Aalto University, Finland</i>
S2-P15	Solubilization of modified xylan in water	Chonnipa Palasingh <i>Chalmers University of Technology, Sweden</i>
S3-P1	Testing the efficiency of novel chelating agents for peroxide bleaching of pulps	Takaaki Goto <i>BOKU, Austria</i>
S3-P2	Biomass-derived spherical cellulose nanocrystals	Lalduhsanga Pachuau <i>Assam University, India</i>
S3-P3	Lupin crop residues as a new polysaccharide source	Alina E. M. Schmidt <i>KTH, Sweden</i>
S3-P4	Preparation of water redispersible nanocellulose via addition of water-soluble polysaccharides interfering fibre-to-fibre interaction	Liqiu Hu <i>Åbo Akademi University, Finland</i>
S3-P5	Structural Characterization of the extracellular polysaccharide (EPS) of the invasive diatom <i>Didymosphenia geminata</i>	Lara Dütsch <i>Technische Universität Bergakademie Freiberg, Germany</i>

DAY 2 | FRIDAY | SEPTEMBER 9th, 2022

8:30-9:00	REGISTRATION & POSTER SET-UP DAY 2		
9:00-9:40	ROOM 1 Plenary lecture 2 A research journey on polysaccharide-based materials <i>Carmen Freire, University of Aveiro, Portugal</i> <i>Chair: Anna Laromaine</i>		
PARALLEL SESSIONS			
ROOM 1 AUDITÓRIO RENATO ARAÚJO		ROOM 2 SALA DE ATOS ACADÉMICOS	
<u>SESSION 6</u> : Polysaccharides for biomedical applications <i>Chairs: Roberta Censi, Coraline Chartier & Lénaïc Soullard</i>		<u>SESSION 7</u> : Out of the box – new research angles and applications of polysaccharides <i>Chairs: Katja Heise & Hubert Hettegger</i>	
9:40-10:10	Keynote 6 3D-printing of aerogels: Development of a technological combination for biomedical applications <i>Carlos Garcia González, University of Santiago de Compostela, Spain</i>	9:40-10:10	Keynote 7 Seeking & exploiting the unique opportunities of polysaccharides to form sustainable materials <i>Blaise Tardy, Khalifa University, UAE; Aalto University, Finland</i>
10:10-10:30	S6-01 Mesenchymal stromal cells 3D cultures in collagen hydrogels reinforced with bacterial cellulose fibers <i>Nanthilde Malandain, ICMA-B-CSIC, Spain</i>	10:10-10:30	S7-01 Wood warping by 3D printing <i>Doron Kam, The Hebrew University of Jerusalem, Israel</i>
10:30-11:10	COFFEE-BREAK & POSTER SESSION DAY 2		
11:10-11:30	S6-02 Enzymatic degradation of starch foams for bone regeneration <i>Anais Lescher, INRAE, France</i>	11:10-11:30	S7-02 Solution-State NMR spectroscopy in cellulose chemistry <i>Lukas Fliri, Aalto University, Finland</i>
11:30-11:50	S6-03 Combining Low Transition Temperature Mixtures with hyaluronic acid & NSAID for osteoarthritis treatment <i>Ana Roda, FCT NOVA, Portugal</i>	11:30-11:50	S7-03 Waste biomass coffee-quinone induced supercapacitors with nanocellulose membranes <i>Julian Selinger, TU Graz, Austria</i>

11:50-11:55	S6-PI1 High-performance cellulose nanocomposite substrates for printed electronics with end-of-life considerations <i>Aayush Kumar Jaiswal, VTT, Finland</i>	11:50-11:55	S7-PI1 Cellulose nanocrystals as collectors in froth flotation technology: new green materials for mineral processing <i>Feliciano Ludovici, University of Oulu, Finland</i>
11:55-12:00	S6-PI2 Gelatin-nanofibrillated cellulose based bioinks for 3D bioprinting applications <i>Nicole Lameirinhas, University of Aveiro, Portugal</i>	11:55-12:00	S7-PI2 3,3',5,5'-Tetramethylbenzidine and oxidized nanocellulose: Visually responsive Pickering emulsions <i>Roberto Aguado, University of Girona, Spain</i>
12:00-14:00	LUNCH BREAK		
ROOM 1 AUDITÓRIO RENATO ARAÚJO		ROOM 2 SALA DE ATOS ACADÉMICOS	
<u>SESSION 8</u> : Polysaccharide-based carriers for drug delivery systems <i>Chairs: Roberto Aguado & Tânia Almeida</i>		<u>SESSION 9</u> : Practical steps towards industrially relevant research on polysaccharides <i>Chairs: Blaise Tardy, Caio G. Otoni & Marco Beaumont</i>	
14:00-14:30	Keynote 8 Polysaccharide-based nanocarriers as vaccine adjuvants – chitosan and glucan contribution for improved hepatitis B vaccine efficacy <i>Sandra Jesus, University of Coimbra, Portugal</i>	14:00-14:30	Keynote 9 Tangled up in renewables - how wood-based cellulose fibers can help with environmental issues <i>Martina Opietnik, Lenzing AG, Austria</i>
14:30-14:50	S8-O1 Dissolvable carboxymethylcellulose microneedles for administration of diclofenac envisaging rapid pain relief <i>Ana Cristina Silva, University of Aveiro, Portugal</i>	14:30-14:50	S9-O1 Investigations for the use and recyclability of the ionic liquid [MTBDH][AcO] as a solvent in Lyocell similar spinning processes <i>Michael Sturm, TITK, Germany</i>
14:50-15:10	S8-O2 Kinetics of ascorbic acid 2-phosphate and dexamethasone phosphate release from chitosan porous materials in view of wound dressing applications <i>Coraline Chartier, CEMEF, MINES ParisTech, France</i>	14:50-15:10	S9-O2 The role of packing and mechanical properties on the jamming of non-colloidal plant cell-wall suspensions <i>Panagiota Mouraka, University of Nottingham, United Kingdom</i>

15:10-15:30	S8-O3 Locust bean gum, a polysaccharide source for pulmonary delivery of insulin <i>Miguel Galrinho, University of Aveiro, Portugal</i>	15:10-15:15	S9-PI1 Synthesis of cellulose aerogel beads from agricultural residues <i>Diogo Costa, German Aerospace Center, Germany</i>
		15:15-15:20	S9-PI2 Mechano-catalytic partial depolymerization of lignocellulosic feedstock towards oligomeric glycans <i>Marius Wolf, IWKS, Germany</i>
15:30-16:10	COFFEE-BREAK & POSTER SESSION DAY 2		
16:10-16:30	ROOM 1 LECTURE EPNOE YOUNG SCIENTIST AWARD <i>Chair: Laura Nyström (EPNOE Vice-President for Membership and Awards)</i>		
16:30-17:00	ROOM 1 AWARDS & CLOSING CEREMONY <i>Chairs: Carla Vilela, Idalina Gonçalves, Anna Laromaine, Kamila Kapuśniak & Arkadiusz Żarski</i> Pedro Fardim (EPNOE President) Carmen Freire (EPNOE Vice-President for Conferences and Workshops)		

POSTER COMMUNICATIONS – DAY 2

	Title	Presenter
S4-P1	Plasticization of all cellulose composites with a biobased additive for improved performance	Bruno Valente <i>University of Aveiro, Portugal</i>
S4-P2	Optically transparent Eucalyptus spp. wood as a substrate for the development of innovative functional materials	Vasco Valente <i>University of Aveiro, Portugal</i>
S4-P3	Synthesis of new bio-based flame retardants for biocomposite applications	Khouloud Tilouche <i>IMT Mines Ales, France</i>
S4-P4	From hemp stalk waste to porous wood-mimic foams	Sergejs Beluns <i>Riga Technical University, Latvia</i>
S4-P5	Development of starch/locust bean byproduct-based blisters	Joana Lopes <i>University of Aveiro, Portugal</i>
S4-P6	Effect of chitin nanofiber coating on biodegradable polymer microparticles	Yuto Kaku <i>The University of Tokyo, Japan</i>
S4-P7	Towards sustainable chitosan-based fluorine-free superhydrophobic coatings	Irene Tagliaro <i>University Milano-Bicocca, Italy</i>
S4-P8	Development of carboxymethyl cellulose-based bio-aerogels	Sujie Yu <i>MINES ParisTech, CEMEF, France</i>
S4-P9	Textile waste upcycling into cellulose aerogel beads	Marion Negrier <i>Center For Material Forming, France</i>
S4-P10	Anti-inflammatory starch-based films derived from potato and tomato byproducts	Paloma Lopes <i>University of Aveiro, Portugal</i>
S4-P11	Spin dyeing man-made cellulose fibres with Vat dyes	Nicole Nygren <i>Aalto University, Finland</i>
S4-P12	Hydrophobic and flexible starch-based films derived from potato chips industry byproducts	André Oliveira <i>University of Aveiro, Portugal</i>
S4-P13	Development of antioxidant starch/PBAT/onion peel-based thermoplastic composites	Mariana Vallejo <i>University of Aveiro, Portugal</i>
S4-P14	Adding value to starch-rich rice byproducts through the development of antioxidant/UV-protective bioplastics	Paulo Brites <i>University of Aveiro, Portugal</i>
S5-P1	Development of starch-based films containing lysozyme nanofibrils for active food packaging	Anna Karamysheva <i>University of Aveiro, Portugal</i>
S5-P2	Assessment of the acceptance and preferences of vegetable and fruit mousses with a potato dextrin fiber in children with normal and abnormal body weight	Malwina Wojcik <i>Jan Dlugosz University, Poland</i>

S5-P3	Microwave-assisted preparation of resistant dextrans from potato starch	Malwina Wojcik <i>Jan Dlugosz University, Poland</i>
S5-P4	The properties of soluble dextrin fibre from potato starch prepared in semi-industrial scale	Kamila Kapusniak <i>Jan Dlugosz University, Poland</i>
S6-P1	Pectin hydrogels reinforced with biobased nanofibers for 3d-bioprinting applications	Maria C. Teixeira <i>University of Aveiro, Portugal</i>
S6-P2	Cellulose acetate nanosystems loaded with curcumin for cancer treatment	João Leite <i>University of Aveiro, Portugal</i>
S6-P3	Mushroom β -glucan microparticles with immune-activating potential	Christiane Ellefsen <i>University of Oslo, Norway</i>
S6-P4	Enhancing the properties of cellulose nanofibrils hydrogels with tragacanth gum and lignin nanoparticles	Roberta Polez <i>Aalto University, Finland</i>
S6-P5	Preparation of physically crosslinked hyaluronic acid-based aerogels	Laurianne Legay <i>CEMEF, France</i>
S6-P6	Elimination of the height limit for extrusion-based 3D printed hydrogels by rapid photopolymerization	Doron Kam <i>The Hebrew University of Jerusalem, Israel</i>
S6-P7	Magnetic chitosan biocomposite films for hyperthermia therapy of skin tumors	Ana Barra <i>University of Aveiro, Portugal</i>
S7-P1	In-situ alignment of dielectric fibers with electric fields in extrusion processes	Florian Lackner <i>TU Graz, Austria</i>
S7-P2	Method development for regioselective capture of cellulose oxygen for climate studies	Magdalena Drys <i>University of Helsinki, Finland</i>
S8-P1	Storage Stability and Cutaneous Compatibility of Bacterial Nanocellulose-based Systems for Topical Drug-Delivery	João Carvalho <i>University of Aveiro, Portugal</i>
S8-P2	Phloroglucinol-enhanced chitosan hydrogels with antioxidant activity for drug delivery application	Marilia Horn <i>University of Kassel, Germany</i>
S9-P1	Towards hydrolytically stable superbase ionic liquids: application for cellulose dissolution/regeneration	Eva Gazagnaire <i>University of Helsinki, Finland</i>
S9-P2	Aminolytic degradation of elastane for the recycling of cellulose-based textile blends	Lorena Blanco <i>University of Vigo, Spain</i>
S9-P3	Understanding the links between microscopic molecular relaxations and macroscopic mechanical properties in cellulose films	Alex Gresty <i>University of Leeds, England</i>