

## Monday 14th of May 2018

07:00	08:30	Registration and welcome coffee - room Antona Trstenjaka	
<b>Room II</b>			
08:30		Welcome - Head of LCPP	Karin Stana Kleinschek
08:40		Welcome - President of EPNOE	Patrick Navard
08:50		Research at LCPP	Rupert Kargl
09:10		Enabling technologies - the core assets of BioNanoNet network	Andreas Falk
09:45		Interaction of Polysaccharides	Wim Thielemans
10:15	10:30	Poster and Coffee break room Antona Trstenjaka	

<b>Room II</b>			
<b>Polysaccharides in technical applications</b>			
10:30		Potential of fibrillated cellulose in papermaking. Looking for optimal conditions of fibrillation and addition rate to maximize paper perform	Julie BOSSU
10:50		Investigation of dissolution process of cellulose in NaOH-urea (system) and effect of regenerated material on properties of paper	Velta Fridrihsone
11:10		Nanocellulose papers from elephant manure	Andreas Mautner
11:30		From surface modification of cellulosic materials to paper-based biosensors	Thomas Elschner
11:50		All-cellulose composites based on paper fines for energy storage devices	Mathias A. Hobisch
12:10	13:10	Lunch in room Antona Trstenjaka	
<b>Polysaccharides in technical applications</b>			
13:10		Up-scaling bioplastic formulations: from solvent casting to extrusion and injection processes	Idalina Gonçalves
13:30		Lignocellulosic residues pretreatment with reactive extrusion using enzymes? Influence of process conditions on subsequent enzymatic h	Etienne Gatt
13:50		Reactive extrusion	Alexander Feldner
14:10		Electrospinning water-soluble/insoluble polymer blends	Robin Böttjer
14:30		Microphase separation of cellulose derivates	Gundula Teichert
14:50	16:00	Foto - Poster session and Coffee break in room Antona Trstenjaka	
<b>Polysaccharides in technical applications</b>			
16:00		GREEN DERIVATIZATION AND RAMAN MAPPING OF FUNCTIONALIZED CELLULOSIC SUBSTRATES	Matthieu LANDA
16:20		Gas-esterification of cellulose particles for the production of PHBV based biocomposites	Grégoire DAVID
16:40		Influence of low-pressure oxygen plasma on properties of hemp fibres (Cannabis sativa)	Marija Gorjanc
17:00		Flame retardancy of flax fabrics by radiografting of phosphorus compounds	Raymond Hajj
17:20		How is cellulose affected during the X-rays examination of manuscripts?	Alice Gimat
17:40		Incorporation of Nanoparticles into Cellulose Matrices using Femtosecond Laser Pulses	Werner Schlemmer
19:30	22:00	Dinner	

<b>Room Borisa Podrecce</b>			
<b>Polysaccharides in biomedical applications</b>			
10:30		ENTIRELY BIO-SOURCED NANOCOMPOSITES FOR THE ELABORATION OF BIOMATERIALS	Veronica Nessi
10:50		New composites for basic GTR principles: employment of nature- derived and bio-inspired materials in periodontal treatment	Selestina Gorgieva
11:10		Definition of optimal "active" material for bio-printing through analyzing the thin films	Tina Maver
11:30		A preliminary study of material suitability for growth of pancreatic cells	Marko Milojevic
11:50		Alternative sigma factor F (SigF) regulates secretion and production of extracellular polysaccharides in <i>Synechocystis</i> sp. PCC 6803	Carlos Flores
12:10	13:10	Lunch in room Antona Trstenjaka	
<b>Polysaccharides in biomedical applications</b>			
13:10		Dextran formamidines: A new and easily synthesizable non-viral vector in gene delivery	Konrad Hotzel
13:30		Polymer analogous reactions comparing polysaccharide dextran with polyvinyl alcohols	Ana Bratuša
13:50		Dextran-based hydrogels matrixes for biomedical applications ? synthesis and characterization.	Kamila J. Szafulera
14:10		Pullulan-based microneedles for transdermal delivery of pharmaceutical ingredients	Daniela F. S. Fonseca
14:30		Functional and Material Properties of a Novel Microcrystalline Cellulose for Drug Delivery	Lalduhsanga Pachuau
14:50	16:00	Foto - Poster session and Coffee break in room Antona Trstenjaka	
<b>Polysaccharides in biomedical applications</b>			
16:00		Isolation and purification of high molecular weight chitin from shrimp shells using deep eutectic solvents	bojana bradic
16:20		Thermodynamic study of the interaction of various salts with cellulose nanocrystals	Salvatore Lombardo
16:40		Surface treatment of chitosan fibers with polypyrrole	Elena Dresvyanina
17:00		Mimicking biological mechanical behavior by a bioactive lactose-modified chitosan	Franco Furlani
17:20		Electrospun cellulose acetate nanofibrous mats for detection of pH in the wound bed	Natalija Virant
17:40		Development of cellulose wound dressing materials with rutin and polyrutin	Tanja Pivec
19:30	22:00	Dinner	

## Tuesday 15th of May 2018

### Room II

08:30	09:05	Wood research center Slovenia	Andreja Kutnar
09:05	09:45	Monosaccharide chemistry	Martin Thonhofer
09:45	10:00	<b>Poster and Coffee break in room Antona Trstenjaka</b>	

### Room II

#### Polysaccharides in technical applications

10:00		The influence of zinc oxide nanorods on chitosan-based film properties for food packaging	Zélia Alves
10:20		The influence of neutralization on the properties and structure of chitosan films	Urška Jančič
10:40		Physical, antioxidant and antimicrobial properties of chitosan-based films incorporated with hop extract	Marijan Bajič
11:00		Starch films reinforced with broccoli by-products with antioxidant activity	Sónia S. Ferreira
11:20		Development of chitosan/graphene oxide composites for potential application as anion-exchange membranes in fuel cells	Barbara Kaker
11:40		Novel chitosan-based silica-coated magnetic nanocomposites as a potential adsorbent for heavy metals	Olivija Plohl

12:00	13:00	<b>Lunch in room Antona Trstenjaka</b>	
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#### Polysaccharides in technical applications

13:00		Anisotropic Diffusion and Phase Behaviour of Cellulose Nanocrystal Suspensions	Jonas Van Rie
13:20		Water vapor diffusivity estimation in a polydisperse sample of micrometric size cellulose particles	Valentin Thoury
13:40		Nanofibrillated cellulose stabilized Pickering emulsion as templates for thermal superinsulating materials	Clara Jimenez Saelices
14:00		Making bio-based materials from microalgae : solvent and plasticization routes	Nicolas Le Moigne
14:20		Insights in electrostatic interactions between cationic modified cellulose and microalgae	An Verfaillie
14:40		Cellulose metal sulfide based nanocomposite thin films	Michael Weißl

15:00	15:20	<b>Poster and Coffee break in room Antona Trstenjaka</b>	
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#### Polysaccharides in food science

15:20		Nanocellulose from citrus peel residue: A sustainable biorefinery approach	Eduardo M. de Melo
15:40		From structure to functionality: an initial approach towards the application of the galactomannans extracted from Prosopis affinis	Pilar Vilaró
16:00		Cellulose dissolution and regeneration: From scattering and NMR characterization to probiotic bacteria entrapment	Bruno Medronho
16:20		Identification and characterisation of Micro-fibrillated cellulose (MFC) from pea fibre food waste.	Jade Phillips

16:40	<b>Coffee break in room Antona Trstenjaka</b>		
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### Room II

17:00	17:30	Prizes and awards closing ceremony	Organizers
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### Room Borisa Podrecce

#### Polysaccharides in basic science

10:00		Tailor-Made Polysaccharides with Defined Substitution Pattern by Enzymatic Polymerization of Arabinoxylan Oligosaccharides	Deborah Senf
10:20		Investigations towards the Synthesis of Bismuth-sugar conjugates	Martin Thonhofer
10:40		Polysaccharide Carbonates as Intermediates for Modular Synthesis Approaches	Martin Gericke
11:00		Efficient solvent-free preparation of amidified carboxymethyl cellulose derivatives: study of the structure-properties relationships	Asja Pettignano
11:20		3D (bio)-scaffolds from cellulose derivatives: preparation, characterization and application	Tamilselvan Mohan
11:40		Functionalization of never-dried Nanocelluloses	Marco Beaumont

12:00	13:00	<b>Lunch in room Antona Trstenjaka</b>	
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#### Polysaccharides in basic science

13:00		The potential of electrochemical methods in analysis of natural polysaccharides	Slađana Strmečki Kos
13:20		Responsive chitosan/surfactant complexes for different applications	Leonardo Chiappisi
13:40		The impact of the hemicellulose acetylation on interactions with model cellulose surfaces: a QCM-D study	Zahraa JAAFAR
14:00		Formation of Ethyl Cellulose Particles: Influence of Different Surface Active Polysaccharide Derivates and Particle Formation Methods	Doris Tkaučič
14:20		Investigation of the decomposition process of cellulose during oxidation with ammonium persulfate	Inese Filipova
14:40		RELATIONSHIP BETWEEN DEGREE OF SUBSTITUTION AND VISCOSITY OF CATIONIC STARCH	Denys Zalyvchy

15:00	15:20	<b>Poster and Coffee break in room Antona Trstenjaka</b>	
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#### Polysaccharides in basic science

15:20		Coupling of alginate isolation with alternative method for polyphenol extraction from brown seaweed Laminaria Hyperborea	Miša Mojca Cajnko
15:40		Does mannan interact with arabinogalactan proteins and impact wheat endosperm development?	Yves Verhertbruggen
16:00		Kraft lignin as a modifier and binder: Esterification of lignin	Matej Bračič

16:20	<b>Coffee break in room Antona Trstenjaka</b>		
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### Room II

17:00	17:30	Prizes and awards closing ceremony	Organizers
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**Poster Monday 14th of May 14:50 - 16:00 - Room Antona Trstenjaka**

1	Fractionation and structural analysis of polysaccharides from <i>Chlorella vulgaris</i> G11 biomass	Leonid Sushytskyi	food
2	Redesign of collagen sausage casings for high quality performance using food grade polysaccharides	Motolani Sobanwa	food
3	Chitin as a renewable source for the production of smart food packaging materials	Bojana Bradic	technical application
4	Gelatin/PAN as a polymer blend for electrospinning	Daria Wehlage	technical application
5	Influence of xylan on ions of 1-ethyl-3-methylimidazolium acetate solution	Wafa Ezzawam	technical application
6	MATUROLIFE - Metallisation of Textiles to make Urban living for Older people more Independent and Fashionable	Alenka Ojstršek	technical application
7	Oil encapsulation in core-shell alginate capsules using droplets based millifluidic	Mariana Pereda	technical application
8	Using phenolics from potato peels for the production of active starch-based films	Joana Lopes	technical application
9	A comparative study of sample preparation for staining and immunodetection of plant cell walls by light microscopy	Yves Verhertbruggen	basic science
10	A comprehensive approach to the analysis of anhydrosaccharides in wood pyrolysis products	Kristine Meile	basic science
11	Fungal biomass polysaccharides: extraction of side stream from enzyme production	Ida Nikkilä	basic science
12	Gas chromatographic-mass spectrometric determination of selected monosaccharides in wood hemicellulose samples	Mitja Kolar	basic science
13	Lytic polysaccharide monooxygenases (LPMOs) as novel tools for the preparation of innovative nanocelluloses	Amani Chalak	basic science
14	The improvement of wet spinning of chitosan fibers	Ekaterina Maevskaia	basic science
15	Comparison of bacterial cellulose yield in two strains of <i>Gluconacetobacter xylinus</i> in Hestrinn-Schramm and molasses media	Ceren Sagdic Oztan	basic science
16	Bacterial cellulose on bioelectronics for the study and treatment of neurodegenerative disorders	Tiago Carvalho	biomedical application
17	Bioresorption of porous three-dimensional chitosan-based matrices	Pavel Popryadukhin	biomedical application
18	Surface treatment of chitosan fibers with polypyrrole	Elena Dresvyanina	biomedical application