



IWBLCM 2019



Ayuda Eventos ceIA3 con la financiación de la Junta de Andalucía a los Campus de Excelencia (PECA)

2nd International Workshop on Biorefinery of Lignocellulosic Materials (IWBLCM2019)

SCIENTIFIC PROGRAMME

Tuesday 4th
Mudéjar Hall, Rectorate

18:30-19:30	Registration
19:40-20:00	Opening Ceremony
20:00 - 20:45	Inaugural Conference Dr. Orlando J. Rojas Aalto University, Finland <i>Lignocellulose nanomaterials and nanotechnologies: Keys to enable the biobased economy</i>
20:45 - ...	Welcome cocktail

2nd International Workshop on Biorefinery of Lignocellulosic Materials
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Wednesday 5th
Mudéjar Hall, Rectorate

<u>CHAIRMAN SESSION 1</u> Álvaro Tejado Tecnalia, Spain	
8:45 -	Plenary Lecturer Dr Thomas Rosenau BOKU University, Vienna, Austria
9:30	<i>Cellulose swelling, dissolution and regeneration seen at the molecular level</i>
9:35 -	010 Fast track for accurate determination of carboxyl groups and sulfonic acid groups in lignosulfonates
9:50	Ivan Sumerskii, Miriam Vogt, Hubert Hettegger, Roelant Hilgers, Mirjam Kabel, Hassan Amer, Thomas Rosenau, Antje Potthast
9:50 -	023 Effect of the morphological characteristics and size distribution on the rheological properties of CNF dispersions
10:05	Gregory Albornoz-Palma, Daniel Ching, Miguel Pereira
10:05 -	027 Mechanical and chemical production of lignocellulose nanofibres from vegetable plants through environmentally friendly process
10:20	I. Bascón-Villegas, E. Espinosa, M. Sánchez, F. Pérez-Rodríguez, A. Rodríguez
10:20 -	07 Xylitol and arabinose production from agro-industrial residues
10:35	Csaba Fehér, Margaréta Rozbach, Soma Bedő, Bettina Paszerbovics, Anikó Fehér
10:35 -	018 Temperature and time effect on ionosolv lignin structure elucidation by HSQC-NMR
10:50	Antonio Ovejero-Pérez, Victoria Rigual, Sandra Rivas, Juan C. Domínguez, M. Virginia Alonso, Mercedes Oliet, Francisco Rodríguez
10:50 -	Coffe Break
11:15	
11:20 -	Poster Session 1
12:00	P1 / P6 / P11 / P16 / P21 / P26 / P31 / P36 / P41 / P46 / P51
<u>CHAIRMAN SESSION 2</u> Inese Filipova, Latvian State Institute of Wood Chemistry, Latvia	
12:05 -	09 Post-treatment of oxidized lignin for versatile dispersants using membrane filtration
12:20	P. Vandezande, V. Polizzi, A. Kalliola, T. Vehmas, T. Liitiä
12:20 -	026 Enzymatic conversion of sugar beet pulp by using a non-conventional methodology
12:35	Cristina Marzo, Ana Belén Díaz, Ildefonso Caro, Ana Blandino

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12:35 - 12:50	O3 Recent discoveries of novel lignin monomers derived from the flavonoid and stilbene biosynthetic pathways José C. del Río, Ana Gutiérrez, Hoon Kim, John Ralph, Jorge Rencoret
12:50 - 13:05	O33 Precise control of the AFM cantilevers coverage by Langmuir-Blodgett: application with cellulose nanocrystals for force spectroscopy measurements Carlos Marcuello, Brigitte Chabbert, Michael Molinari, Veronique Aguié-Béghin
13:05 - 13:20	O20 Has the residual lignin content effect in pva/(ligno)nanocellulose biocomposite films? Eduardo Espinosa, Fleur Rol, Isabel Bascón-Villegas, Julien Bras, Alejandro Rodríguez
13:30 - 14:45	Lunch
14:45 - 15:20	Poster Session 2 P2 / P7 / P12 / P17 / P22 / P27 / P32 / P37 / P42 / P47 / P52
CHAIRMAN SESSION 3 José Carlos del Río, IRNAS-CSIC, Spain	
15:30 - 16:15	Plenary Lecturer Dr Alfred French Department of Agriculture, Agricultural Research Service, USA <i>Shapes of xylan molecules</i>
16:20 - 16:35	O36 Production of biomaterials from different agroindustrial waste for packaging applications R. Sánchez, P. Albaladejo, M.Gallur
16:35 - 16:50	O17 Study of the influence of anionic waste on the production of recycled paper reinforced with LCNF Quim Tarrés, Ramon Serrat, Helena Oliver-Ortega, Marc Delgado-Aguilar, Pere Mutjé
16:50 - 17:05	O12 Experimental and statistical modeling of the exploitation properties of eco-friendly MDF through variation of lignosulfonate concentration and hot pressing temperature Petar Antov, Ivo Valchev, Viktor Savov
17:05 - 17:20	O16 Cellulose nanofibers and chitosan to remove flexographic inks from wastewaters Ana Balea, M. Concepción Monte, José Luis Sánchez-Salvador, Ángeles Blanco, Carlos Negro
17:20 - 17:35	O41 Biorefinery processes for the integral valorization of the residual forest biomass (pine cone) for food packaging applications J. Trifol, R. Moriana

SOCIAL PROGRAMME

Wednesday 5th



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19:30-...	Guide Tour (Free, included in all fees) Start point → Rectorate building
...-22:00	Free time for dinner (dinner not included in fees)
22:00 or 23:30	Nocturnal visit to "La Mezquita-Catedral" (free for all participants)

2nd International Workshop on Biorefinery of Lignocellulosic Materials
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Thursday 6th
Mudéjar Hall, Rectorate

<p>CHAIRMAN SESSION 4 Ángeles Blanco, Universidad Complutense de Madrid, Spain</p>	
9:00 – 9:45	<p>Plenary Lecturer Dr Marc Borrega VTT Technical Research Centre of Finland, Finland</p> <p><i>Hydrothermal processing of biomass as integral part of biorefinery operations</i></p>
9:50 - 10:05	<p>O11 Strategy to increase platform chemical production from renewable feedstock Giuliano Dragone, Pablo Doménech, Celina K. Yamakawa, Solange I. Mussatto</p>
10:05 - 10:20	<p>O40 Pretreatment and enzymatic hydrolysis of cotton spinning residues: a case study using imidazole and 1-ethyl-3-methylimidazolium acetate Luiz Pereira Ramos, Douglas H. Fockink, Jürgen Andreaus, Rafal M. Łukasik</p>
10:20 - 10:35	<p>O31 Kinetic modelling of lignocellulose waste saccharification: fractal and phenomenological models Mateusz Wojtusik, Priscilla Vergara, Juan Carlos Villar, Félix García-Ochoa, Miguel Ladero</p>
10:35 - 10:50	<p>O22 Spherical cellulose ii core-shell nanoparticles decorated with carboxyl groups Marco Beaumont, Blaise Tardy, Antje Potthast, Thomas Rosenau, Orlando Rojas</p>
10:50 - 11:15	<p>Coffe Break</p>
11:20 - 12:00	<p>Poster Session 3 P3 / P8 / P13 / P18 / P23 / P28 / P33 / P38 / P43 / P48 / P53</p>
<p>CHAIRMAN SESSION 5 Luiz Pereira Ramos, Universidade Federal do Paraná, Brazil</p>	
12:05 - 12:20	<p>O28 Routes for functionalizing nanostructured natural polysaccharides towards antimicrobial foams CG Otoni, O Rojas, W Loh</p>
12:20 - 12:35	<p>O14 Influence of hemicellulose molecular features on the recalcitrance of lignocellulosic biomass Francisco Vilaplana, Antonio Martínez-Abad, Amparo Jiménez-Quero, Jennie Berglund, Mikael Lindström, Gunnar Henriksson, Jakob Wohler</p>

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12:35- 12:50	O8 Obtaining bilayer and composite biomaterials with high barrier properties combining paper and bacterial cellulose Roncero, M. Blanca, Valls, Cristina, Martínez, Josefina, Fillat, Amanda, Cusola, Oriol, Vidal, Teresa, Díaz, Pilar, Valenzuela, Susana V, Pastor, F. I. Javier
<u>CHAIRMAN SESSION 6</u> Francisco Vilaplana, KTH, Sweden	
12:55 - 13:10	O4 Invasive alien plants – a burden for the environment or new opportunity for papermaking? Tea Kapun, Janja Zule, Andrej Šinkovec
13:10 - 13:25	O15 Comparison of different nanocelluloses as reinforced additives for recycled cardboard José Luis Sánchez-Salvador, Ana Balea, M. Concepción Monte, Carlos Negro, Meaghan Miller, James Olson, Ángeles Blanco
13:25 - 13:40	O2 Assessing the reactivity of dissolving pulps by dissolution-based torque reactivity (DTR) test Sara Ceccherinia, Marina Stahl and Thad Maloney
13:40 - 13:55	O21 Microfibril obtain for adhesive uses Ligero, P, Abad, M.J., García, X., Vega, A.
14:00 – 15:15	Lunch
15:15 – 15:55	Poster Session 4 P4 / P9 / P14 / P19 / P24 / P29 / P34 / P39 / P44 / P49 / P54
<u>CHAIRMAN SESSION 7</u> M^a Evangelina Vallejos, Universidad Nacional de Misiones, Argentina	
16:00 - 16:45	Plenary Lecturer Dra Solange Mussatto Technical University of Denmark, Denmark <i>Sustainable approaches for implementation in biorefineries</i>
16:50 - 17:05	O39 Hydrogels from xylan/chitosan complexes: use of sodium citrate to improve drug loading and release processes Carla N. Schnell, María V. Galván, Miguel A. Zanuttini, Paulina Mocchiutti
17:05 - 17:20	O19 Biorefinery of cereal by-products, the complexity of hemicellulose valorization as bioactive compounds Amparo Jiménez-Quero, Reskandi C. Rudjito, Andrea C. Ruthes, Francisco Vilaplana



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17:20 – 17:35	01 Hydrothermal pretreatment of sugarcane bagasse – effects of severity on enzymatic saccharification and formation of inhibitors Dimitrios Ilanidis, Stefan Stagge, Leif J. Jönsson, Carlos Martín
17:35 – 17:50	025 Bay leaves essential oil as additive in CMC-based edible films for food packaging Esther Rincón, Luis Serrano, Alina M. Balu, José J. Aguilar, Rafael Luque, Araceli García
17:50 – 18:05	013 Processing factors for production of eco-friendly medium density fibreboards based on lignosulfonate adhesives Viktor Savov, Ivo Valchev, Petar Antov

SOCIAL PROGRAMME

Thursday 6th

21:00	Equestrian show "Pasión y Duende del Caballo Andaluz"
22:30	Gala Dinner at "Caballerizas Reales"

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Friday 7th

<p>CHAIRMAN SESSION 8 Marc Borrega, VTT Technical Research Centre, Finland</p>	
9:30 – 10:15	<p>Plenary Lecturer Dr Carlos Negro Universidad Complutense de Madrid, Spain</p> <p><i>Prospects of nanocelluloses for fibre reinforced cement composites industry</i></p>
10:20 - 10:35	<p>O38 Relationship between the characteristics of microfibrillated cellulose (MFC) pulps, and raw materials Roxana Giselle González, Yanina Susel Aguerre, Miguel Pereira, María Evangelina Vallejos, Fernando Esteban Felissia, María Cristina Area</p>
10:35 - 10:50	<p>O24 Multifuncional cellulosic foam made from cellulose fibres through a simple freezing/thawing method Álvaro Tejado</p>
10:50 - 11:05	<p>O6 Biological pretreatment of wood-processing residues by edible shiitake for the production of cellulosic ethanol Carlos Martín, Shaojun Xiong, Leif J. Jönsson</p>
11:05 - 11:20	<p>O29 Polysaccharide-derivatives as versatile selectors for stationary phases in chromatographic applications Hubert Hettegger, Marco Beaumont, Gerhild K. Wurzer, Alois Jungbauer, Antje Potthast, Thomas Rosenau</p>
11:20 - 11:55	<p>Coffe Break</p>
12:00 - 12:30	<p>Poster Session 5 P5 / P10 / P15 / P20 / P25 / P30 / P35 / P40 / P45 / P50 / P55</p>
<p>CHAIRMAN SESSION 9 Carlos Martín, Umea University, Sweden</p>	
12:35 - 12:50	<p>O34 Nanomechanical properties of lignocellulosic films and their interaction with cellulose nanocrystals measured by Atomic Force Microscopy: impact of the humidity Carlos Marcuello, Brigitte Chabbert, Michael Molinari, Veronique Aguié-Béghin</p>
12:50 - 13:05	<p>O32 Valorization of olive stones to obtain furfural in the presence of γ-Al_2O_3 and CaCl_2 Inmaculada Fúnez Núñez, Cristina García Sancho, Juan Antonio Cecilia, Ramón Moreno Tost, Pedro J.MairelesTorres, Luis Serrano Cantador</p>



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13:05 - 13:20	05 Effect of hydrolytic oxidative treatment on the chemical composition of wood Inese Filipova, Karlis Krecers
13:20 - 13:35	030 Seaweed biomass conversion to high added value chemicals by microwave-assisted and flow chemistry technology Luis Serrano, Simona Consoletti, Matteo Francavilla, Rafael Luque
13:35 - 13:50	Closing Ceremony
14:00 -	Lunch

WI-FI ACCESS

All participants have free internet connection using following data:

USERNAME → congreso

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