

Poster Sessions

Topic: Raw-Materials

Auditorium II

- P1 **Characterization by Chemical and Thermogravimetric Analysis of *Hesperaloe funifera***
Alejandro Rodríguez, Rafael Sánchez, Ana Requejo, Ana Ferrer, José L. Ferrer, Luis Jiménez
- P2 **Comparative Study on the Fiber Morphology of *Eucalyptus grandis*, *Eucalyptus tereticornis* x *Eucalyptus grandis* and *Eucalyptus Maculata***
Carlos E. Nuñez
- P3 **Thermogravimetric Characterization of Eucalyptus Wood**
Agustín G. Barneto, Rocio B. Hernández, Julia M. Berenguer
- P4 **Use of Label Base Papers as Secondary Fibers**
Neves, J. M. D'Almeida, M.L.O., Ewerton S. P. Ferrão, Koga, M.E.T., Ota, S.
- P5 **Analytical Methods for Non-Wood Materials**
Beatriz Garcés, Alexandra Villa, Felipe Montoya
- P6 **Morphological and Physical Characterization of Agricultural Residues as a Source of Fibres for Papermaking**
Rocío Jarabo, M. Concepción Monte, Angeles Blanco, Carlos Negro, M. Angels Pelach, Pere Mutje, Julio Tijero
- P7 **Chemical and Morphological Evaluation of 5-11 Year Old *Schizolobium amazonicum* Wood**
Graziela Vidaurre, Jorge Colodette, Carlos Dambroz, Benedito Vital, Dalton Longue Jr. e Humberto Fantuzzi
- P8 **Study of Hydroxymethylation Reaction of Alkaline Lignin for Use in Phenolic Resins**
El Mansouri Nour-Eddine, Qiaolong Yuan, Farong Huang
- P9 **Synthesis and Characterization of Kraft Lignin-Based Epoxy Resin**
El Mansouri Nour-Eddine, Qiaolong Yuan, Farong Huang
- P10 **Methylation of Alkaline Lignin Without Formaldehyde**
El Mansouri Nour-Eddine, Qiaolong Yuan, Farong Huang

Topic: Pulp Production

Auditorium II

- P11 **Delignification with Oxygen and Peracids of Pulp obtained of Liner Paper From Old Corrugated Container (OCC)**
Cynthia Barreto Ríos, J. Jesús Rivera Prado, José Anzaldo Hernández, Juan Ramos Quirarte, José Rutiaga Quiñonez, Rubén Sanjuán Dueñas
- P12 **Hanges on Implementation Way of Kappa Number and its Impact on the Final Outcome**
Marlene Dely Cruz, Célio Robusti
- P13 **Use of Thermogravimetry Analysis to Control the Industrial Production of Pulp**
Agustín G. Barneto, Rocio B. Hernández, José A. Carmona
- P14 **Effects of Fas Deinking on the Removal of Main Colours of Oil-Based Inks from Uncoated and Coated Office Papers**
Sami İmamoğlu, Arif Karademir, Emrah Peşman and Cem Aydemir
- P15 **Lab Scale Fine-Fractionation of Deinked Pulp and Particle Microscopic Analysis**
Saurabh Kumar, François Julien-Saint-Amand, Raphaël Passas, Benjamin Fabry, Matthieu Schelcher

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- P16 **Lignocellulosic Fibres from Corn Stalks as Alternative for the Production of Brown Grade Papers**
Jirleska Flandez, M.Àngels Pèlach, Fabiola Vilaseca, Julio Tijero, Concepción Monte, Ildefonso Pérez, Pere Mutje
- P17 **Strategies to Reduce the Brightness Reversion of Industrial ECF Bleached *Eucalyptus globulus* Kraft Pulp**
Isabel M. C. L. Seco, Carlos Pascoal Neto, Armando J. D. Silvestre
- P18 **Bleaching of Eucalyptus Kraft Pulp with the Enzyme-Hydrogen Peroxide Sequence**
Ildefonso Perez, M. Jesús de la Torre, Malgorzata Kowalska, Ana Marín, Ana Moral, M. Àngels Pèlach
- P19 **Xylanase Application in Eucalyptus Kraft Pulp Bleaching with Peracetic Acid**
Ildefonso Perez; M. Jesús de la Torre; Ana Marín; Malgorzata Kowalska; Ana Moral; Pere Mutjé
- P20 **Bleaching of Ethanolamine Olive-Wood Trimmings Pulp with the Enzyme - Sodium Perborate Sequence**
Ildefonso Perez; M. Jesús de la Torre; Malgorzata Kowalska; Ana Marín; Pere Mutjé; M. Àngels Pèlach
- P21 **Evaluation of age and productivity of eucalyptus on wood quality for bleached pulp production**
Marileide Gomes da Silva, Francides Gomes da Silva Júnior
- P22 **Papermaking Aptitude of Fibres Proceeding from Whole Peas and Broad Beans Stalks**
Jirleska Flández, M.Àngels Pèlach, Joan Serra, Fabiola Vilaseca, Pere Mutjé
- P23 **The Influence of Digester Additives on the Control of Extractives in Eucalyptus and Birch Kraft Pulp**
Juha P.T. Fiskari, Peter Drew
- P24 **Potential of Acacia Wood for Kraft Pulp Production**
Tiago E. S. Segura, Marina Zanão, Francides G. da Silva Jr.
- P25 **Diffusion Speed of the Reagents in the Kraft Pulping**
María Cristina Inalbon, Miguel Angel Citroni, Miguel Ceferino Mussati, María Verónica Galvan, Miguel Angel Zanuttini
- P26 **Influence of Storage of *Elliottii pine* Wood on the Characteristics of a Sulphite Antraquinone Pulp**
L. Soria, A. Bardanca, R. Echeverría
- P27 **Remote Health Monitoring of Critical Parts in Pulp Washing and Bleaching Rigs**
Paulo M. R. Falcão, Alejandro N. Cruz, José E. G. Oliveira, Hugo Oliveira, Francisco J. A. Cardoso
- P28 **Evaluation of Kraf Cooking Behaviour for Diferent Hardwood Species**
Marta Margarido, Ofélia Anjos, Denilson Da Silva Perez, Gérard Mortha
- P29 **Surface Energy and its Relation to the Bonding Capacity of Unbleached Recycled Fibers**
Miguel A. Citroni, Miguel A. M. Zanuttini, Paulo Ferreira

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Topic: Papermaking

Room 2

- P30 **Solid Density and Dot Gain Properties of Alkali Sized Some Recycled Papers**
Cem Aydemir, Arif Karademir, Hülya Varlıbaş and Sami Imamoglu
- P31 **How to Characterize Coated Papers Topography?**
José L. Velho and Natércia M. Santos
- P32 **Influence of Surface Chemistry of Coated Papers in Inkjet Printing Quality**
Natércia F. Santos and José L. Velho
- P33 **Ultrasonic System and Method for Analysing Paper Properties**
José Velho, Mário João Santos
- P34 **Alternatives To Use Starch In Papermaking: 1. Effect Of Refining Degree And The Starch Dosage**
Deusanilde J. Silva, Márcia B. Cardoso, Maria Luiza O. D'Almeida
- P36 **Mechanism of Action of the Surface Active Agents in Neutral Flotation Deinking of Post-Consumer Wastepaper**
Hader H. Alzate G., Jorge A. Velásquez J., José Turrado S., Germán C. Quintana M., Darlin Aragon L., Andrés M. Dovale S., Belkis C. Sulbarán R.
- P37 **Experience in the Use of Toilet and Towel Paper Classification Standards in Brazil**
Patricia K. Yasumura, Maria Luiza O. D'Almeida, Regina C. T. Takahashi
- P38 **Adsorption of Weak Polyelectrolytes onto Recycled Unbleached Kraft Fibers. Effects of the Medium Conditions on the Degree of Ionization and the Papermaking Properties**
Maria Verónica Galván, Paulina Mocchiutti, Miguel A. Zanuttini
- P39 **Surface Modification of a Commercial Paper by Cold Plasma vs Recycling**
Filipe Gordino, Maria Emília Amaral, Carla Gaiolas, Naceur Belgacem e Ana Paula Costa
- P40 **Applicability of a Colorimetric Method for Determination of Cationic Starch in Paper Samples**
Márcia B. Cardoso, Deusanilde J. Silva, João Marcos A. Bispo, Maria Luiza O. D'Almeida
- P41 **Alumina Trihydrate Potencial to Production of Matt Papers**
Natércia F. Santos and José L. Velho
- P42 **The Role of Pigments on Gloss and Ink Absorption Speed for Photo Inkjet Papers**
Viviane A. Alecrim, David Croll, Daniel Weinzierl, Rainer Klein, Knut Hornig, Kleemann
- P43 **Impact of Surface Tension Agents Type Fatty Alcohol and Fatty Acid Etoxilate in Neutral Deinking Process**
Jose Turrado S., Marcelo P. Novaresi, Belkis C Sulbaran y Hader H. Alzate
- P44 **Performance of Cationic Polyacrylamides in Papermaking - Flocculation, Drainage and Retention**
I. Pinheiro, P. Ferreira, F. P. Garcia, C. Wandrey, L. Amaral, D. Hunkeler, M. G. Rasteiro
- P45 **Printing Quality of Papers Coated with a Modified Pigment Obtained by in Situ Synthesis of Silica Film on PCC**
Ana F. Lourenço, José A. F. Gamelas, Pedro Faustino, Paulo J. Ferreira

Topic: Converting and Printing

Room 2

- P46 **The Influence of Fibrous Composition and Structural Properties of Newspaper in Printing Density and Set-Off**
N. Gómez, C. Molleda, J.C Villar, R. Quiles y P. Ferreira
- P47 **Effect of Ink Grades and Art Coated Papers Properties on Print Quality**
E. Quintana, N. Gómez, J.C Villar, J. Miranda, R. Quiles

Topic: Pulp and Paper Chemistry

Auditorium II

- P48 **Degradation Kinetics of Kenaf Pulps by TGA**
Juan C. Domínguez, Mercedes Oliet, Virginia Alonso, Ester Rojo, Francisco Rodríguez
- P49 **Morphological Characterisation of Pulps to Control Paper Properties**
Ana Moral, M. Concepción Monte, Elena Cabeza, Ángeles Blanco
- P50 **Optimization of the Chemical Modification of Cellophane with Cavasol (Complex Cyanide Cyclodextrine-Chloride)**
Paola A. Cuartas Z., Jorge A. Velásquez J., Germán C. Quintana M.
- P51 **High Purity Pulps from ECF Pulps**
Ivana C. Alberini, Graciela V. Olmos, Ma. Claudia Taleb, Ana M. Adell, Mirtha G. Maximino
- P52 **On The Recovery of Polysaccharides from Oxygen Delignification Stage of Eucalyptus Pulp**
Beatriz Vega, Pedro Fardim

Topic: Energy and Environment

Room 2

- P53 **Hesperaloe funifera for Pulp and Synthesis and Fuel Gases from the Removed Lignin**
Luis Jiménez, Rafael Sánchez, Alejandro Rodríguez, Enrique Navarro, Ana Ferrer
- P54 **Effect of Ozone Treatment on the Recalcitrant Cod of a Chemimechanical Pulping Mill Effluent**
M. Cristina Area, Fernando E. Felissia, Pedro R. Meza
- P55 **Ozone and Activated Sludge Combination to Reduce Recalcitrant Cod of Chemimechanical Pulping Effluents**
M. Cristina Area, Fernando E. Felissia, Pedro R. Meza
- P56 **Recalcitrant Cod Degradation of Chemimechanical and Semi-Chemical Processes Spent Liquors by Wet Oxidation**
M. Cristina Area, Fernando E. Felissia, Olga M. Barboza, Dora I. Bengoechea
- P57 **Wood Polymer Composites for Electromagnetic Wave Protection**
Sanchi K. Nenkova, Radka I. Garvanska, Miroslav N. Kulevski, Kiril V. Dimitrov, Nikolai D. Bakalov
- P58 **Energy Generation Versus Energy Efficiency, Two Key Parameters to Reduce Emissions**
Remei Aldrich, Francesc X. Llauró, Pere Sarquella, M. Angels Pèlach
- P59 **Particleboard Production from Waste of Paper Industry**
Paola A. Cuartas Z., Jorge A. Velásquez J., Germán C. Quintana M., Beatriz Garcés, Mariluz Betancur, Edgar Botero, Astrid Alvarez
- P60 **New Non-Ionic Surfactants in Semi-Neutral Deinking Processes**
M.C. Llobato, F. Vilaseca, M. A. Pèlach, P. Mutjé
- P61 **An Approach on the Valorisation of Pulp Sludge**
M. Graça V.S. Carvalho, Jorge M.S. Rocha
- P62 **Influence of Radio Frequency Identification Technology (RFID) Tags in the Recyclability of Cardboard Packaging**
José María Carbaño, César Aliaga, Mercedes Hortal, Juan Carlos Villar
- P63 **Microemulsions for Enhanced Biomass Pretreatment and Bioconversion**
Orlando J. Rojas, Youssef Habibi, Lucian A. Lucia, Daniel Saloni and Carlos Salas
- P64 **Using Wood and Non-Wood Fibers as a Reinforcement to Produce Recycled Paper from Newspapers**
Esteban Revilla, Maria E. Eugenio, Raquel Martín-Sampedro, Juan C. Villar

Topic: Energy and Environment (cont.)

Room 2

- P65 **Operating Cost Saving Opportunities in Effluent Treatment**
Marten Krogerus
- P66 **Design of Sustainable Processes: Systematic Generation & Evaluation of Alternatives**
Ana Carvalho, Henrique A. Matos, Rafiqul Gani

Topic: Biotechnology and Biorefinery

Room 3

- P67 **Evidence from Cellulose Fiber Palm (*Elaeis guineensis*) Residual from the Productive Chain of Biodiesel**
Wilma de Araújo Gonzalez, Bianca Montes Radomski
- P68 **Integral Utilization of Rice Straw by Using Hydrothermal Treatment and Pulping Process**
Alejandro Rodríguez, Ana Ferrer, Ana Requejo, Luis Jiménez, Antonio Rosal
- P69 **Production of Furfural, Lignin And Ethanol From Sugarcane Bagasse**
Leyanis Mesa Garriga, Erenio González, Cristóbal Cara, Eulogio Castro, Juan Carlos Villar
- P70 **Techno-Economic Comparison of Alternatives for the Production of Ethanol and By-Products from Sugarcane Bagasse**
Erenio González Suárez, Leyanis Mesa, Yaser Oliva, Cristóbal Cara, Eulogio Castro, Juan Carlos Villar
- P71 **Chemical and Physico-Chemical Characterization of Lignin Obtained of Ethanol-Water Fractionation of Bagasse**
María E. Vallejos, Fernando E. Felissia, María C. Area, Aprigio A.S. Curvelo, Marsia D. Zambon, Luis Ramos
- P72 **Composites Materials of Thermoplastic starch and Fibers from the Ethanol-Water Fractionation of Bagasse**
María E. Vallejos, Aprigio A.S. Curvelo, Eliangela M. Teixeira, Fernanda M. Mendes, Antonio J.F. Carvalho, María C. Area, Fernando E. Felissia, Graciela B. Gavazzo
- P73 **Enzymatic Deinking by Flotation in Neutral Condition of Office Paper Recycling**
Belkis. Sulbarán, Orlando Rojas, Richard Venditti y José Turrado
- P74 **Autohydrolysis of *Leucaena diversifolia*: Study Optimizing for Saccharides Production**
Manuel J. Feria, Francisco López, Juan C. García, Antonio Pérez, Minerva A.M. Zamudio, Ascensión Alfaro
- P75 **Kinetics of Enzyme Hydrolysis of Lignocellulosic Raw Materials**
Greta V. Radeva, Ivo V. Valchev, Petya Tsekova
- P76 **Effect of the Laccase-Mediator System on The Temperature – Time and Concentration Dependences of Pulp Delignification**
Greta V. Radeva, Ivo V. Valchev, Eva T. Valcheva
- P77 **Tagasaste Valorization Under Biorefining Processing**
Ascensión Alfaro, Francisco López, Antonio Pérez, Juan C. García, Minerva A.M. Zamudio
- P78 **Alkaline Extraction of Hemicelluloses from Sugarcane Bagasse. Influence of Operation Variables**
Juan.C. García, Danila M. de Carvalho, Francisco Lopez, José M. Lino, Jorge L. Colodette, José L. Gomide
- P79 **Influence of Nitren Extraction Prior to Cellulose Dissolution**
Nuno M. Santos, Patrick Navard, Bodo Saake, Juergen Puls

- P80 **An Integrated Process to Produce High Value-Added Phenolic Compounds from Kraft Lignin**
Eduardo A. B. da Silva, Miriam Zabkova, José D. Araújo, Carolina A. Cateto, Maria F. Barreiro and Alírio E. Rodrigues
- P81 **Laccase and Manganese-Peroxidase Enzymatic Activity Produced by two White-Rot Fungi Growing on Veeners of *Eucalyptus globulus***
Ricardo Silva, Román Alarcón, Javier González, Consuelo Fritz
- P82 **Enzymatic Delignification of *Eucalyptus globulus* Kraft Pulp**
Ricardo Silva, Alejandro Martínez, Javier González, Rodrigo Morales
- P83 **Role of Several Vascular System Genes under the Control of Two Class III HD-ZIP Promoters in *Arabidopsis thaliana***
Elisa M. Figueiredo, Rita T. P. Teixeira, Jorge M. Canhoto
- P84 **DNA Barcoding, A Tool for Discriminating Eucalypt Species**
Victor J. Carocha, Carla Ribeiro, José A. Araújo, Cristina M. P. Marques
- P85 **Enzymatic Reactors Destined the Inking and Bleaching of Cellulose Pulp for Paper**
Millic A. Gill, Gladys Mogollón, Patricia A. Gil
- P86 **Autohydrolysis as a First Step in the Fractionation of *Miscanthus x Giganteus***
Pablo Ligeró, Alberto de Vega, Johannes C. van der Kolk, Jan E.G. van Dam
- P87 **Kraft Biobleaching Using a New Laccase Produced by *Streptomyces ipomoea* CECT 3341**
Raquel Moya, Manuel Hernández, Maria E. Eugenio, Juan C. Villar, María E. Arias
- P88 **Use of Xylanase and Laccase-Mediator Systems for Bleaching Sisal Pulp – Comparing the Effectiveness of a Natural and a Synthetic Mediator**
Elisabetta Aracri, Teresa Vidal
- P89 **Bioproduct Technology: New Degree Programme in AALTO University**
Kyösti Ruuttunen, Leena Hauhio, Pia Lahti, Jouni Paltakari
- P90 **Assessment of Effluents from Laccase Bleaching Treatments**
Cristina Valls, Teresa Vidal, Elisabet Quintana, M. Blanca Roncero
- P91 **Cellulose Nanocrystals as Reinforcement of Poly Vinyl Alcohol Nanocomposites**
Maria S. Peresin, Youssef Habibi, Orlando J. Rojas, Joel J. Pawlak
- P92 **Comparison of the Effects of Three Laccases with a Natural and a Synthetic Mediator on Flax Pulp**
Carlos Vila, Teresa Vidal
- P93 **Proteomics Tools for the Detection of Novel Enzymes with Application in Paper Industries**
Susana V. Valenzuela, Cristina Valls, M. Blanca Roncero, Pilar Diaz, and F. I. Javier Pastor
- P94 **Study of Sugar Cane Bagasse Prehydrolysis for Ethanol Production**
Diana R. Abril, Marelys Medina, Alejandro Abril
- P95 **Kraft Lignin Biotransformation by a Laccase from *Fusarium proliferatum* Combined with Natural and Synthetic Potentiators and Mediators**
Katiuska González Arzola and Miguel Ángel Falcón Sanabria