



XXI TECNICELPA Conference and Exhibition/VI CIADICYP 2010
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#	Title	Co-authors	Institutions
T001	Evidence from Cellulose Fiber Palm (<i>Elaeis guineensis</i>) Residual from the Productive Chain of Biodiesel	Wilma de Araújo Gonzalez, Bianca Montes Radomski*	<i>Instituto Militar de Engenharia, Departamento de Engenharia Química, Praça General Tibúrcio, 80, Praia Vermelha, RJ, Brasil. Vermelha, RJ, Brasil, CEP: 22290-270</i>
T002	Integral Utilization of Rice Straw by Using Hydrothermal Treatment and Pulping Process	Alejandro Rodríguez1*, Ana Ferrer1, Ana Requejo1, Luis Jiménez1, Antonio Rosal2	<i>1*Chemical Engineering Department. Campus of Rabanales, C-3. University of Córdoba. Spain. 2Chemical Engineering. University Pablo de Olavide, Seville, Spain.</i>
T003	<i>Hesperaloe funifera</i> for Pulp and Synthesis and Fuel Gases from the Removed Lignin	Luis Jiménez1*, Rafael Sánchez1, Alejandro Rodríguez1, Enrique Navarro1, Ana Ferrer1.	<i>1Chemical Engineering Department. Campus of Rabanales, C-3. University of Córdoba. Córdoba. Spain.</i>
T004	Characterization by Chemical and Thermogravimetric Analysis of <i>Hesperaloe funifera</i>	Alejandro Rodríguez1*, Rafael Sánchez1, Ana Requejo1, Ana Ferrer1, José L. Ferrer1, Luis Jiménez1.	<i>1Chemical Engineering Department. Campus of Rabanales, C-3. University of Córdoba. Córdoba. Spain.</i>
T005	Delignification with Oxygen and Peracids of Pulp obtained of Liner Paper From Old Corrugated Container (OCC)	Cynthia, Barreto Ríos a;, J. Jesús, Rivera Prado b; José, Anzaldo Hernández b; Juan, Ramos Quirarte b; José, Rutiaga Quiñonez c; * Rubén Sanjuán Dueñas b.	<i>aTesisista de Maestría en Ciencia de Productos Forestales; Universidad de Guadalajara bProfesores-Investigadores del Departamento de Madera, Celulosa y Papel, Universidad de Guadalajara. cUniversidad Michoacana de San Nicolas de Hidalgo Km. 15.5 Carretera a Nogales, Las Agujas, Zapopan Jalisco, México.</i>
T006	Production of Furfural, Lignin And Ethanol From Sugarcane Bagasse	Leyanis Mesa Garriga*1, Erenio González1, Cristóbal Cara2, Eulogio Castro2, Juan Carlos Villar3	<i>1Center of Process Analysis, Central University of Las Villas, Ctra. Camajuani km 5.5, Santa Clara, Cuba 2Department of Chemical, Environmental and Materials Engineering, University of Jaén, Campus Las Lagunillas, 23071 Jaén, Spain 3 INIA. Madrid. Spain</i>
T007	Techno-Economic Comparison of Alternatives for the Production of Ethanol and By-Products from Sugarcane Bagasse	Erenio González Suárez*1, Leyanis Mesa1, Yaser Oliva1, Cristóbal Cara2, Eulogio Castro2, Juan Carlos Villar3	<i>1Center of Process Analysis, Central University of Las Villas, Ctra. Camajuani km 5.5, Santa Clara, Cuba 2Department of Chemical, Environmental and Materials Engineering, University of Jaén, Campus Las Lagunillas, 23071 Jaén, Spain 3 INIA. Madrid. Spain</i>
T009	Hanges on Implementation Way of Kappa Number and its Impact on the Final Outcome	Marlene Dely Cruz1*, Célio Robusti2	<i>1Escola SENAI Theobaldo De Nigris - Rua Bresser, 2315 - Mooca – 03162-030 São Paulo, SP – Brasil. 2Escola SENAI Theobaldo De Nigris - Rua Bresser, 2315 - Mooca – 03162-030 São Paulo, SP – Brasil.</i>
T014	Effect of Ozone Treatment on the Recalcitrant Cod of a Chemimechanical Pulping Mill Effluent	Area, M. Cristina1, 2*, Felissia, Fernando E.2, Meza, Pedro. R.3	<i>1Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). 2Programa de Investigación de Celulosa y Papel - FCEQyN – Universidad Nacional de Misiones (UNaM) - Félix de Azara 1552 (3300) Posadas, Misiones, Argentina. 3Maestría en Ciencias de Madera, Celulosa y Papel – FCEQyN-FCF – UNaM - Posadas, Misiones, Argentina</i>
T015	Ozone and Activated Sludge Combination to Reduce Recalcitrant Cod of Chemimechanical Pulping Effluents	Area, M. Cristina1, 2*, Felissia, Fernando E.2, Meza, Pedro. R.3	<i>1Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). 2Programa de Investigación de Celulosa y Papel - FCEQyN – Universidad Nacional de Misiones (UNaM) - Félix de Azara 1552 (3300) Posadas, Misiones, Argentina. 3Maestría en Ciencias de Madera, Celulosa y Papel – FCEQyN-FCF – UNaM - Posadas, Misiones, Argentina.</i>
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T017	Chemical and Physico-Chemical Characterization of Lignin Obtained of Ethanol-Water Fractionation of Bagasse	María E. Vallejos, 1, Fernando E. Felissia, 1, María C. Area, 1, Aprigio A.S. Curvelo, 2, Marsia D. Zambon, 2, Luis Ramos, 2	<i>1Programa de Investigación de Celulosa y Papel - FCEQyN – Universidad Nacional de Misiones - Félix de Azara 1552, (3300) Posadas, Misiones, Argentina. Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) 2Instituto de Química de São Carlos, USP, CP 780, CEP 13560-750, São Carlos, Brasil.</i>
T018	Composites Materials of Thermoplastic starch and Fibers from the Ethanol-Water Fractionation of Bagasse	María E. Vallejos, 1,2* Aprigio A.S. Curvelo,3 Eliangela M. Teixeira,4	<i>1Programa de Investigación de Celulosa y Papel - FCEQyN – Universidad Nacional de Misiones 2Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)</i>



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		Fernanda M. Mendes, ³ Antonio J.F. Carvalho ⁵ , Maria C. Area ^{1,2} , Fernando E.Felissia ¹ , Graciela B. Gavazzo ¹	<i>3Instituto de Química de São Carlos – USP (SP)</i> <i>4EMBRAPA/CNPDIA, São Carlos (SP)</i> <i>5UFSCar–Campus Sorocaba, Sorocaba (SP), Brasil.</i>
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T021	Enzymatic Deinking by Flotation in Neutral Condition of Office Paper Recycling	Belkis. Sulbarán ¹ , Orlando Rojas ² , Richard Venditti ² y José Turrado ¹ .	<i>1Universidad de Guadalajara, Centro Universitario de Ciencias Básicas e Ingeniería, Departamento de Madera Celulosa y Papel “Ing. Karl Augustin Grellmann”, Guadalajara, Mexico.</i> <i>2North Carolina State University USA, Department of Forest Biomaterials and Engineering College of Natural Resources.</i>
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T025	Solid Density and Dot Gain Properties of Alkali Sized Some Recycled Papers	Cem Aydemir ^{1*} , Arif Karademir ² , Hülya Varlıbaş ² and Sami Imamoglu ³	<i>1Marmara University Faculty of Technical Education, Department of Printing, Goztepe Campus, 34722 Goztepe, Istanbul, Turkey</i> <i>2*Kahramanmaraş Sutcuimam University, Faculty of Forestry, Department of Forest Product Engineering, Bahcelievler Campus, 46100 Kahramanmaraş, Turkey</i> <i>3Artvin Coruh University, Faculty of Forestry, Department of Forest Product Engineering, 08000 Artvin, Turkey</i>
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T028	Comparative Study on the Fiber Morphology of <i>Eucalyptus grandis</i>, <i>Eucalyptus tereticornis</i> x <i>Eucalyptus grandis</i> and <i>Eucalyptus Maculata</i>	Carlos E. Núñez	<i>1PROCYP Programa de Celulosa y Papel, Facultad de Ciencias Exactas, Químicas y Naturales. Universidad Nacional de Misiones. Argentina. Félix de Azara 1552. 3300 Posadas, Misiones Argentina.</i>
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T032	Use of Thermogravimetry Analysis to Control the Industrial Production of Pulp	Agustín G. Barneto ^{1*} , Rocio B. Hernández, José A. Carmona	<i>1Chemical Engineering Department, Campus El Carmen, Huelva University, 21071 Huelva, Spain.</i>
T033	Thermogravimetric Characterization of Eucalyptus Wood	Agustín G. Barneto ^{1*} , Rocio B. Hernández ¹ , Julia M. Berenguer ²	<i>1Chemical Engineering Department, Campus El Carmen, Huelva University, 21071 Huelva, Spain</i> <i>2Chemical Engineering Department. Alicante University. P.O.Box 99, 03080 Alicante, Spain.</i>
T034	Tagasaste Valorization Under Biorefining Processing	Ascensión Alfaro* ¹ , Francisco López ² , Antonio Pérez ³ , Juan C. García ⁴ , Minerva A.M. Zamudio ⁵	<i>1Departamento de Ciencias Agroforestales de la Universidad de Huelva. Avda. Fuerzas Armadas s/n. 21071. Huelva. España.</i> <i>2,3,4,5Departamento de Ingeniería de la Universidad de Huelva. Avda. Fuerzas Armadas s/n. 21071. Huelva. España.</i>
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T049	An Integrated Process to Produce High Value-Added Phenolic Compounds from Kraft Lignin	Eduardo A. B. da Silva ¹ , Miriam Zabkova ¹ , José D. Araújo ¹ , Carolina A. Cateto ² , Maria F. Barreiro ² , Mohamed N. Belgacem ³ e Alírio E. Rodrigues ^{1,*}	<i>1Laboratory of Separation and Reaction Engineering – LSRE, Associate Laboratory LSRE/LCM, Department of Chemical Engineering, Faculty of Engineering, University of Porto, Rua Dr. Roberto Frias s/n, 4200-465 Porto, Portugal 2Laboratory of Separation and Reaction Engineering – LSRE, Associate Laboratory LSRE/LCM, Bragança Polytechnic Institute, Campus de Santa Apolónia, Apartado 1134, 5301-857 Bragança, Portugal 3 Matériaux Polymères, École Française de Papeterie et des Ind. Graphiques, 38402 St. Martin d'Hères, France</i>
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T073	Enzymatic Delignification of <i>Eucalyptus globulus</i> Kraft Pulp	Ricardo Silva ^{1*} , Alejandro Martínez ¹ , Javier González ¹ , Rodrigo Morales ¹	<i>1 Departamento de Ingeniería de la Madera y Biomateriales, Facultad de Ciencias Forestales y Conservación de la Naturaleza, Universidad de Chile. Avenida Santa Rosa 11315. Casilla Postal 9206, La Pintana, Santiago de Chile, Chile.</i>
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T100	Using Wood and Non-Wood Fibers as a Reinforcement to Produce Recycled Paper from Newspapers	Esteban Revilla ^{1*} , Maria E. Eugenio ¹ , Raquel Martin-Sampedro ¹ , Juan C. Villar ¹	<i>1Instituto de Investigación y Tecnología Agraria y Agroalimentaria INIA. Carretera de la Coruña, km 7.5, 28040, Madrid</i>
T103	Chemical and Morphological Evaluation of 5-11 Year Old <i>Schizolobium amazonicum</i> Wood	Graziela Vidaurre ¹ , Jorge Colodette ² , Carlos Dambroz ³ , Benedito Vital ² , Dalton Longue Jr.2 e Humberto Fantuzzi ¹	<i>1Dep. de Engenharia Florestal, Universidade Federal do Espírito Santo, Jerônimo Monteiro, ES, Brasil 2Dep. de Engenharia Florestal, Universidade Federal de Viçosa, Viçosa, MG, Brasil</i>
T105	Enzymatic Reactors Destined the Inking and Bleaching of Cellulose Pulp for Paper	Millic A. Gil ^{1*} , Gladys Mogollón ² , Patricia A. Gil ²	<i>1Dept. of Chemical Engineering, School of Engineering, University of Santiago de Compostela, Campus Sur, 15782 Santiago de Compostela, Spain.</i>



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2University of the Andes, School of Engineering Forest. Department Pulps and Paper.

T110	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.	<i>Universidad Pontificia Bolivariana, Circular 1 N° 70-01, Bloque 11, oficina 251, Medellín-Colombia</i>
T111	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.	<i>Grupo Pulpa y Papel, Universidad Pontificia Bolivariana, Circular 1 N° 70-01, Bloque 11, oficina 251, Medellín-Colombia</i>
T112	Mechanism of Action of the Surface Active Agents in Neutral Flotation Deinking of Post-Consumer Wastepaper	Hader H. Alzate G.1, Jorge A. Velásquez J.1*, José Turrado S.2, Germán C. Quintana M.1, Darlin Aragon L.1, Andrés M. Dovale S.1, Belkis C. Sulbarán R.2	<i>1Universidad Pontificia Bolivariana, Grupo Pulpa y Papel – Facultad de Ingeniería Química, Colombia. 2Universidad de Guadalajara, Centro Universitario de Ciencias Básicas e Ingeniería, Departamento de Madera Celulosa y Papel “Ing. Karl Augustin Grellmann”, Guadalajara-México</i>
T118	New Non-Ionic Surfactants in Semi-Neutral Deinking Processes	M.C. Llobato, F. Vilaseca, M. A. Pèlach, P. Mutjé	<i>Grupo LEPAMAP. Dpto. De Ingeniería Química, Escuela Politécnica Superior, Universitat de Girona. Avda. Lluís Santaló, S/N. 17071- Girona (Spain)</i>
T119	An Approach on the Valorisation of Pulp Sludge	M. Graça V.S. Carvalho1*, Jorge M.S. Rocha1	<i>1CIEPQPF, Departamento de Engenharia Química, Universidade de Coimbra, R. Silvio Lima, 3030-790 Coimbra, Portugal</i>
T120	Study of Hydroxymethylation Reaction of Alkaline Lignin for Use in Phenolic Resins	El Mansouri Nour-Eddine*, Qiaolong Yuan, Farong Huang	<i>School of Materials Science and Engineering, East China University of Science & Technology, 130 Meilong Road, Shanghai 200237. China.</i>
T121	Synthesis and Characterization of Kraft Lignin-Based Epoxy Resin	El Mansouri Nour-Eddine*, Qiaolong Yuan, Farong Huang	<i>School of Materials Science and Engineering, East China University of Science & Technology, 130 Meilong Road, Shanghai 200237. China.</i>
T123	The Influence of Digester Additives on the Control of Extractives in Eucalyptus and Birch Kraft Pulp	Juha P.T. Fiskari1*, Peter Drew2	<i>1Consultant, FI-07410 Kråkå, Finland 2BasTech LLC, ch. en vuaracaux, 1297 Founex, Switzerland</i>
T124	Autohydrolysis as a First Step in the Fractionation of <i>Miscanthus x Giganteus</i>	Pablo Ligerio1*, Alberto de Vega1, Johannes C. van der Kolk2, Jan E.G. van Dam2	<i>1Departamento de Química Física e Engenharia Química, Faculdade de Ciências, Universidade A Coruña, Rúa da Fraga, 10, 15071, A Coruña, España. 2Food and Biobased Research, Wageningen University and Research Centre, P.O. Box 17, 6700 AA Wageningen, Países Bajos.</i>
T125	Kraft Biobleaching Using a New Laccase Produced by <i>Streptomyces ipomoea</i> CECT 3341	Raquel Moya1, Manuel Hernández1, María E. Eugenio2, Juan C. Villar2, María E. Arias1*	<i>1Departamento de Microbiología y Parasitología. Universidad de Alcalá. 28871 Alcalá de Henares. Madrid 2Instituto de Investigación y Tecnología Agraria y Agroalimentaria INIA. Carretera de la Coruña, km 7.5, 28040, Madrid</i>
T128	Methylation of Alkaline Lignin Without Formaldehyde	El Mansouri Nour-Eddine*, Qiaolong Yuan, Farong Huang	<i>School of Materials Science and Engineering, East China University of Science & Technology, 130 Meilong Road, Shanghai 200237. China.</i>
T130	Experience in the Use of Toilet and Towel Paper Classification Standards in Brazil	Patrícia K. Yasumura*, Maria Luiza O. D’Almeida, Regina C. T. Takahashi	<i>Instituto de Pesquisas Tecnológicas do Estado de São Paulo S/A - IPT, São Paulo, SP, Brasil</i>
T131	Potential of Acacia Wood for Kraft Pulp Production	Tiago E. S. Segura*1, Marina Zanão2, Francides G. Da Silva Jr.3	<i>1Laboratório de Química, Celulose e Energia - Departamento de Ciências Florestais, Universidade de São Paulo-Mestrando em Recursos Florestais 2Laboratório de Química, Celulose e Energia - Departamento de Ciências Florestais, Universidade de São Paulo-Aluna de graduação em Engenharia Florestal 3Laboratório de Química, Celulose e Energia - Departamento de Ciências Florestais, Universidade de São Paulo-Professor do Depto. de Ciências Florestais</i>
T132	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	<i>Universitat Politècnica de Catalunya, Textile and Paper Engineering Department, Colom 11, E-08222 Terrassa, Spain.</i>
T134	High Purity Pulps from ECF Pulps	Ivana C. Alberini 2, Graciela V. Olmos1, Ma. Claudia Taleb1, Ana M. Adell1, Mirtha G. Maximino1, 2 *	<i>1Instituto de Tecnología Celulósica. Facultad de Ingeniería Química. Universidad Nacional del Litoral. Santiago del Estero 2654. 3000 Santa Fe. Argentina. 2Consejo nacional de Investigaciones Científicas y Tecnológicas (CONICET). Santiago del Estero 2654. 3000 Santa Fe. Argentina.</i>
T137	Bioproduct Technology: New Degree Programme in AALTO University	Kyösti Ruuttunen*, Leena Hauhio, Pia Lahti, Jouni Paltakari	<i>Aalto University School of Science and Technology, Faculty of Chemistry and Materials Sciences, Department of Forest Products Technology, P.O. Box 16300, 00076 Aalto, Finland</i>
T139	Influence Of Radio Frequency Identification Technology (RFID) Tags In The Recyclability of Cardboard Packaging	José María Carbajo1, César Aliaga2, Mercedes Hortal2, Juan Carlos Villar2*	<i>1Laboratorio de Celulosa y Papel CIFOR-INIA. Ctra de la Coruña Km. 7. 28040. Madrid, España 2Sustainability Divison. Packaging, Transport & Logistics Research Institute. Albert Einstein I. 46980 Paterna, Valencia, Spain.</i>



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T140	Assessment of Effluents from Laccase Bleaching Treatments	Cristina Valls, Teresa Vidal, Elisabet Quintana, M.Blanca Roncero*	<i>Universitat Politècnica de Catalunya, Textile and Paper Engineering Department, Colom 11, E-08222, Terrassa, Spain</i>
T141	Adsorption of Weak Polyelectrolytes onto Recycled Unbleached Kraft Fibers. Effects of the Medium Conditions on the Degree of Ionization and the Papermaking Properties	María Verónica Galván, Paulina Mocchiutti*, Miguel A. Zanuttini.	<i>Instituto de Tecnología Celulósica, Facultad de Ingeniería Química, Universidad Nacional del Litoral. Santiago del Estero 2654 S3000 AOJ, Santa Fe, Argentina.</i>
T142	Diffusion Speed of the Reagents in the Kraft Pulping	María Cristina Inalbon1*, Miguel Angel Citroni1, Miguel Ceferino Mussati2, María Verónica Galvan1, Miguel Angel Zanuttini1.	<i>1Instituto de Tecnología Celulósica – Facultad de Ingeniería Química – Universidad Nacional del Litoral. Santiago del Estero 2654. S3000AOJ. Santa Fe, Santa Fe, Argentina. 2INGAR Instituto de Desarrollo y Diseño (CONICET-UTN) Avellaneda 3657, S3002GJC, Tel. +54-342-4534451, Santa Fe, Argentina.</i>
T146	On The Recovery of Polysaccharides from Oxygen Delignification Stage of Eucalyptus Pulp	Beatriz Vega1,2*, Pedro Fardim1.	<i>1Ábo Akademi University, Lab. of Fibre and Cellulose Technology, Porthansgatan 3, FI 20500 2Universidad de la República, Facultad de Química, Laboratorio de Biocatálisis y Biotransformaciones, General Flores 2124, UY 1157</i>
T149	Design of Sustainable Processes: Systematic Generation & Evaluation of Alternatives	Ana Carvalho1,2*, Henrique A. Matos1, Rafiqul Gani2	<i>1CPQ, Department of Chemical and Biochemical Engineering, Instituto Superior Técnico, Av. Rovisco Pais, 1049-001, Lisboa, Portugal 2CAPEC, Department of Chemical and Biochemical Engineering, Technical University of Denmark, DK-2800, Lyngby, Denmark</i>
T150	Surface Modification of a Commercial Paper by Cold Plasma vs Recycling	Filipe Gordino1, Maria Emília Amaral1, Carla Gaiolas1, Naceur Belgacem2 e Ana Paula Costa1*	<i>1Unidade de Materiais Têxteis e Papeleiros, Universidade da Beira Interior, Rua Marquês d'Avila e Bolama, 6201-001 Covilhã 2École Internationale du Papier de la Communication Imprimée et des Biomateriaux, Institute National Polytechnique de Grenoble - France</i>
T153	Applicability of a Colorimetric Method for Determination of Cationic Starch in Paper Samples	Márcia B. Cardoso1*, Deusanilde J. Silva1, João Marcos A. Bispo1, Maria Luiza O. D'Almeida1	<i>1 Instituto de Pesquisas Tecnológicas do Estado de São Paulo</i>
T155	Cellulose Nanocrystals as Reinforcement of Poly Vinyl Alcohol Nanocomposites	Maria S. Peresin1*, Youssef Habibi 1, Orlando J. Rojas1, 2, Joel J. Pawlak 1	<i>1Department of Forest Biomaterials, North Carolina State University, Campus Box 8005, Raleigh, NC 27695 2Faculty of Chemistry & Materials Sciences, Dept. Forest Products Technology, Aalto University, P.O. Box 3320, FIN-02015 TKK, Espoo, Finland</i>
T159	Microemulsions for Enhanced Biomass Pretreatment and Bioconversion	Orlando J. Rojas1, 2, Youssef Habibi1, Lucian A. Lucia1, Daniel Saloni1 and Carlos Salas1	<i>1Department of Forest Biomaterials, North Carolina State University, Campus Box 8005, Raleigh, NC 27695 2Faculty of Chemistry & Materials Sciences, Dept. Forest Products Technology, Aalto University, P.O. Box 3320, FIN-02015 TKK, Espoo, Finland</i>
T160	Influence of Storage of <i>Elliottii</i> pine Wood on the Characteristics of a Sulphite Antraquinone Pulp	Soria, L.* , Bardanca, A.. Echeverría, R.	<i>Departamento Forestal. Facultad de Agronomía. Avda. Garzón 780 , Montevideo - URUGUAY</i>
T161	Comparison of the Effects of Three Laccases with a Natural and a Synthetic Mediator on Flax Pulp	Carlos Vila, Teresa Vidal	<i>Universitat Politècnica de Catalunya, Textile and Paper Engineering Department, Colom 11, 08222 Terrassa, Spain.</i>
T162	Alumina Trihydrate Potential to Production of Matt Papers	Natércia F. Santos1* e José L. Velho2	<i>1Departamento de Engenharia Química e do Ambiente, Instituto Politécnico de Tomar, 2300-313 Tomar, Portugal 2Departamento de Geociências, Universidade de Aveiro, 3810-193 Aveiro, Portugal</i>
T165	Proteomics Tools for the Detection of Novel Enzymes with Application in Paper Industries	Susana V. Valenzuela1, Cristina Valls2, M. Blanca Roncero2, Pilar Diaz1, and F. I. Javier Pastor1*	<i>1Dep. Microbiología, Facultad de Biología, Universitat de Barcelona, Av. Diagonal 645 Barcelona, 08028 España 2Dep. Ingeniería Textil y Papelera (ETSEIAT), Univ. Politècnica de Catalunya, Colom 11, 08222, Terrassa.</i>
T173	Remote Health Monitoring of Critical Parts in Pulp Washing and Bleaching Rigs	Paulo M. R. Falcão1, Alejandro N. Cruz1, José E. G. Oliveira1,3, Hugo Oliveira2, Francisco J. A. Cardoso1,3*	<i>1ENEIDA, Lda., Edifício IPN – Rua Pedro Nunes, 3030-199 Coimbra, Portugal 2Grupo Portucel Soporcel, FPS – Fábrica de Pasta e Papel de Setúbal, Setúbal, Portugal 3Universidade de Coimbra, Departamento de Física, Rua Larga da Universidade, 3004-516 Coimbra, Portugal</i>
T174	Kraft Lignin Biotransformation by a Laccase from <i>Fusarium proliferatum</i> Combined with Natural and Synthetic Potentiators and Mediators	Katiuska González Arzola and Miguel Ángel Falcón Sanabria*	<i>Departamento de Microbiología y Biología Celular. Facultad de Farmacia. Universidad de La Laguna 38206 La Laguna Tenerife.</i>
T176	Evaluation of Kraft Cooking Behaviour for Different Hardwood Species	Marta Margarido1,2*, Ofélia Anjos2,3, Denilson Da Silva Perez 4, Gérard Morthal	<i>1PAGORA Grenoble INP, Laboratory of Wood and Pulp Chemistry and Processes (LGP2) UMR-CNRS 5518, Domaine Universitaire, F-38400 Saint Martin d'Hères, France 2Cernas - CERNAS – Research centre of natural resources, environmental and society. Bencata,</i>



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			3040-316 Coimbra, Portugal
			3Polytechnic Institute of Castelo Branco (Agrarian School), Quinta da Senhora de Mércules, Apartado 119 – 6001 Castelo Branco – Portugal.
			4FCBA, Domaine Universitaire, Grenoble, France.
			1Instituto de Tecnología Celulósica, Facultad de Ingeniería Química, Universidad Nacional del Litoral. Santiago del Estero 2654 S3000 AOJ, Santa Fe, Argentina.
T180	Surface Energy and its Relation to the Bonding Capacity of Unbleached Recycled Fibers	Miguel A. Citroni ¹ , Miguel A. M. Zanuttini ^{1*} , Paulo Ferreira ²	2Centro de Investigação em Engenharia dos Processos Químicos e dos Produtos da Floresta, Departamento de Engenharia Química, Faculdade de Ciências e Tecnologia, Universidade de Coimbra. Polo II - Pinhal de Marrocos, 3030-790 Coimbra, Portugal
T181	The Role of Pigments on Gloss and Ink Absorption Speed for Photo Inkjet Papers	Viviane A. Alecrim ^{1*} , David Croll ^{1, 2} , Daniel Weinzierl ² , Rainer Klein ² , Knut Hornig ³ , Kleemann ¹	1Munich University of Applied Sciences. MUAS. Lothstrasse 34. 80335 Munich, Germany. 2Paper Technology Specialists, Pirnaer Straße 37. 01809 Heidenau, Germany. 3Felix Schoeller Jr. Foto- und Spezialpapiere GmbH & Co. KG. 49086 Osnabrück, Germany
T183	Study of Sugar Cane Bagasse Prehydrolysis for Ethanol Production	Diana R. Abril ¹ , Marelys Medina ² , Alejandro Abril ^{3*}	1Universidad Católica del Maule, Talca, Chile 2UIP de la Celulosa del Bagazo Cuba-9 3UIP de la Celulosa del Bagazo Cuba-9