



**XXI TECNICELPA Conference and Exhibition/VI CIADICYP 2010**  
**12-15 October 2010, FIL (Parque das Nações) – Lisbon, Portugal**



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<b>Co-authors</b>	<b>Title</b>	<b>Institutions</b>	<b>#</b>
Afonso H. T. Mendes <sup>1*</sup> , Hae Y. Kim <sup>2</sup> , Song W. Park <sup>1</sup>	<b>Image Analysis Application for Evaluation of Dimensional Stability of Reprographic Paper from Hardwood Fibers</b>	<i>1</i> Departamento de Engenharia Química, Universidade de São Paulo Av. Prof. Luciano Gualberto – travessa 3, 380 05508-900 São Paulo-SP, Brasil <i>2</i> Departamento de Engenharia de Sistemas Eletrônicos, Universidade de São Paulo, Av. Prof. Luciano Gualberto – travessa 3, 158 05424-970 São Paulo-SP, Brasil	T156
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Daniel J. O. Ferreira	<b>Modelling of Char Bed Active Layer for Application in a Kraft Recovery CFD Comprehensive Model</b>	1 Universidade de São Paulo – Escola Politécnica – Dep. Engenharia Química. Av. Luciano Gualberto 380 trv.3 CEP 05508-900 São Paulo – Brasil. 2 Departamento de Engenharia Química, Universidade Federal de Minas Gerais, Escola de Engenharia – CEP: 30160-030 Belo Horizonte – MG – Brasil 1 Chemical Engineering Department, Polytechnic University of São Paulo, São Paulo, 05508-900, Brazil.	T147
Deusanilde J. Silva1*, Song W. Park1, Martin A. Hubbe2, Orlando J. Rojas2,3	<b>Polyampholites as Paper Dry Strength Agents</b>	2 Forest Biomaterials Science and Engineering, North Carolina State University, Raleigh, NC, USA. 3 Faculty of Chemistry & Materials Sciences, Dept. Forest Products Technology, Aalto University, Finland	T113
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Eero Hiltunen, Hannu Paulapuro	<b>Effect of Long-Fibred Reinforcement Pulp on Mechanical Properties of Short Fibre-Based Paper</b>	Aalto University, School of Science and Technology, P.O. Box 16300, 00076 Aalto, Helsinki, Finland	T135
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Esa K. Vakkilainen*1, Marcelo Hamaguchi1, Daniel Coronel Laux1	<b>Grouping Statistically Emissions from a Recovery Boiler</b>	Lappeenranta University of Technology, P.O. Box 20, FI-53581 Lappeenranta, Finland	T152
Ezequiel Delgado Fornuél1*, Héctor J. Contreras Quiñones1, Guillermo Toriz González1	<b>Review of Fundamental Aspects of Adhesion Between Cellulosic Surfaces in Contact</b>	1Departamento de Madera, Celulosa y Papel “Ing. Karl Augustin Grellman”, Universidad de Guadalajara, Guadalajara, Apdo. Postal 45-120, Zapopan, México 1Empire State Paper Research Institute, Department of Paper & Bioprocess Engineering, State University of New York College of Environmental Science and Forestry, 1 Forestry Drive - Syracuse, NY 13210 USA	T096
G. V. Duarte1*, B.V. Ramarao1*, T.E. Amidon1, P. T. Ferreira2	<b>Properties of Eucalyptus globulus Fibers after Hot Water Extraction</b>	2Chemical Engineering Department, University of Coimbra, Pólo II, R. Sílvio Lima, 3030-790 Coimbra, PORTUGAL	T046
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Gabriel D. A. Sousa1	<b>Biorefinery Development Pathways: a Survey for the Pulp and Paper Industry</b>	IRAIZ, Research Institute of Forestry and Paper, Quinta de S. Francisco, Apart. 15, 3801-501 Eixo, Portugal	T095
Gabriel D. A. Sousa1, Belinda I. G. Soares1,2	<b>Advanced Studies on E. globulus Wood Kraft Cooking</b>	IRAIZ, Research Institute of Forestry and Paper, Quinta de S. Francisco, Apart. 15, 3801-501 Eixo, Portugal 2 On leave to: CICECO, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal	T067
Harald Grossmann1, Matthias Wanske2	<b>Ultrasonic Treatment of Paper Webs – A New Volume Preserving Calendering Method</b>	1Professorship of Paper Technology, Technische Universität Dresden, Germany 2Professorship of Paper Technology, Technische Universität Dresden, Germany	T179
Hélio M. F. Faustino1, Nuno R. S. Gill1, Cecília M.C. Baptista1,2, Ana Paula C. Duarte3, 4	<b>Antioxidant Activity of Lignin Phenolic Compounds Extracted from Kraft and Sulphite Black Liquors</b>	1 Research Unit of Textile & Paper Materials, University of Beira Interior, 6201-001 Covilhã, Portugal 2 Polytechnic Institute of Tomar, ESTT, Department of Engineering and Environment, 2300-	T055



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		3 University of Beira Interior, Faculty of Health Sciences, 6201-001 Covilhã, Portugal	
		4 Health Sciences Research Centre, University of Beira Interior, 6201-001 Covilhã, Portugal	
Isabel M. T. Moutinho <sup>1</sup> , Margarida L. Figueiredo <sup>2</sup> , Paulo J.T. Ferreira <sup>2</sup>	<b>Paper Surface Chemistry as a Tool to Improve Inkjet Printing Quality</b>	1About The Future – Empresa Produtora de Papel S.A., Complexo Industrial de Setúbal, Mitrena, Apartado 55, 2901-861 Setúbal, Portugal 2Chemical Engineering Department of Coimbra University, Polo II da Universidade de Coimbra, Rua Silvío Lima, 3030-290 Coimbra, Portugal	T036
Jacques J. Silvy <sup>1</sup> , Rogério M.S. Simões <sup>2</sup> , Álvaro F.C. Vaz <sup>3*</sup>	<b>Pulp Suspension Friction Analysis in the Beater Gap</b>	1Retired Full Professor, Universidade da Beira Interior, Covilhã, Portugal 2Associate Professor, Chemistry Department, Universidade da Beira Interior, Covilhã, Portugal 3Assistant Professor, Chemistry Department, Universidade da Beira Interior, Covilhã, Portugal	T107
Javier Doldán <sup>1*</sup> , Outi Poukka <sup>2</sup> , Keijo Salmenoja <sup>2</sup> , Marcos Battagazzore <sup>3</sup> , Virginia Fernandez <sup>3</sup> , Inés Eluén <sup>3</sup>	<b>Evaluation of Sources and Routes of Non-Process Elements in a Modern Eucalyptus Kraft Pulp Mill</b>	1 Departamento de Proyectos Forestales - LATU - Av. Italia 6201, C.P. 11500 Montevideo, Uruguay 2 Oy Metsä-Botnia Ab – FI-26101 Rauma, Finland 3 UPM Fray Bentos mill – Ruta Puente Puerto Km 307 Fray Bentos, Uruguay	T047
Jean-Christophe Hostachy <sup>1</sup> , Franz-Josef Richardt <sup>2</sup> , Arnaldo Oliveira Araujo <sup>3</sup>	<b>Successful Philosophy to Maximize Efficiency and Environmental Performance Implementing Green Bleaching of Chemical Pulp</b>	1Director – Key Account Pulp & Paper, ITT Water and Wastewater, Boschstrasse 4, D-32051 Herford, Germany 2Senior Process Engineer–Key Account Pulp & Paper, ITT Water and Wastewater, Boschstrasse 4, D-32051, Herford, Germany 3P&P Facilitator – Altec Europe, Air Liquide Ibérica, Rua Dr. António Loureiro Borges, 4, 2º, Arquiparque – Miraflores, 1495-131 Algés, Portugal	T083
Jirleska Flandez <sup>1</sup> , M.Àngels Pèlach <sup>1</sup> , Julio Tijero <sup>2</sup> , Fabiola Vilaseca <sup>1</sup> , Miquel Llop <sup>1</sup> , Pere Mutjel	<b>Aptitude of Cellulosic Fibres From Whole Corn Stalks</b>	1Grupo LEPAMAP. Dpto. De Ingeniería Química, Escuela Politécnica Superior, Universitat de Girona. Avda. Lluís Santaló, S/N. 17071- Girona (Spain) 2Grupo Celulosa y Papel, Chemical Engineering Dpt, Chemical Faculty, Complutense University of Madrid 28040 – Madrid (Spain)	T091
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Joana M.R. Curto <sup>1*</sup> , Eduardo L.T. Conceição <sup>2</sup> , António T. G. Portugal <sup>3</sup> , Rogério M.S. Simões <sup>4</sup>	<b>The Fibre Properties Influence on a Three Dimensional Paper Model</b>	1PhD Student and Teaching Assistant, University of Beira Interior, Textile and Paper Materials Research Unit, Rua Marquês d'Ávila e Bolâma n.º 54 – Covilhã, Portugal. 2Auxiliary Professor, University of Coimbra, Chemical Engineering Dep., Pólo II, Rua Silvío Lima, Coimbra. Portugal. 3Associate Professor, University of Coimbra, Chemical Engineering Dep., Pólo II, Rua Silvío Lima, Coimbra. Portugal 4Associate Professor, University of Beira Interior, Textile and Paper Materials Research Unit, Rua Marquês d'Ávila e Bolâma n.º 54 – Covilhã, Portugal.	T143
Jordi Garcia <sup>1</sup> , M.Blanca Roncero <sup>1</sup> , Josep F. Colom <sup>1</sup> , Teresa Vidal <sup>1*</sup>	<b>Enzymatic Treatments with Laccase: an Alternative to the Conventional Internal Sizing of Paper?</b>	Textile and Paper Engineering Department. ETSEIAT. Universitat Politècnica de Catalunya. Colom 11. E-08222 Terrassa, Spain.	T115
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Kari Räisänen*, Michel Bauchu, Teuvo Virkkunen, Hannu Turpeinen, Hannu Partanen	<b>Making the Impossible Possible</b>	Metso, Paper business line	T186
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M. Angels Pèlach1*, Angeles Blanco2, Marcel Caner1, Josep Puig1, Pere Mutjé1	<b>Fractionation and Refining of Bleached Thermomechanical Pulps</b>	<i>1</i> LEPAMAP Group. Department of Chemical Engineering (EQATA), Universitat de Girona. Campus Montilivi, Edifici P-I, 17071 Girona (Spain) <i>2</i> Grupo de Celulosa y Papel, Departament de Chemical Engineering. Universidad Complutense de Madrid, Avda. Complutense, s/n, 28040 Madrid (Spain).	T099
Marcelo C. dos S. Muguet1,2*, Jorge L. Colodette1, Cristiane Pedrazzi1	<b>Xylans Deposition onto Eucalyptus Pulp Fibers During Oxygen Delignification. Part 1: The Influence of NaOH Charge, Reaction Time and Temperature</b>	<i>1</i> Pulp and Paper Laboratory, Federal University of Viçosa, Minas Gerais, Brazil, zipcode 36570-000	T177
Marcelo Hamaguchi, Esa K. Vakkilainen	<b>The Influence of Lignin Removal on the Energy Balance of Future Pulp Mills</b>	<i>1</i> Lappeenranta University of Technology, P.O. Box 20, FI-53581 Lappeenranta, Finland	T164
Maria E. Eugenio1*, Jesús Miranda1, Raquel Martín-Sampedro1, Juan C. Villar1	<b>Influence of a Laccase Bleaching Process Variables on Bleached Pulp Properties</b>	<i>1</i> Instituto de Investigación y Tecnología Agraria y Agroalimentaria INIA. Carretera de la Coruña, km 7.5, 28040, Madrid <i>1</i> Programa de Investigación de Celulosa y Papel - FCEQyN – Universidad Nacional de Misiones	T114
María E. Vallejos*1,2, María S. Peresin3, Orlando J. Rojas3,4	<b>Electrospun Cellulose Acetate Nano- and Micro-Fibers Reinforced with Cellulose Nanocrystals</b>	<i>2</i> Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) <i>3</i> Department of Forest Biomaterials - North Carolina State University - Raleigh, U.S. <i>4</i> Department of Forest Products Technology, Faculty of Chemistry and Materials Sciences, Helsinki University of Technology, Finland	T163
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Mauro Manfredi*, Rubens C. de Oliveira	<b>Application of Ultrasonic Treatment of Pulp and Xylans Addition at Secondary Fibre Industry</b>	<i>Laboratório de Celulose e Papel. Departamento de Engenharia Florestal. Universidade Federal de Viçosa. Campus, Viçosa – MG, Brasil</i>	T102
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Michael Lecourt1, Adrien Soranzo2, Romain Baldi3, Michel Petit-Conil4	<b>Refining of Radiata Pine and Eucalyptus Kraft Pulps Assisted with Commercial Laccase Mediator Systems</b>	<i>1</i> InTechFibres – FCBA, BP 254, 38044 Grenoble, France <i>2</i> InTechFibres – FCBA, BP 254, 38044 Grenoble, France <i>3</i> Ahlstrom Innovation Services - ZI de l'Abbaye - Impasse Louis Champin - 38780 Pont-Eveque, France <i>4</i> InTechFibres – CTP, BP 254, 38044 Grenoble, France	T054
Mikhail S. Saraiva, José A. F. Gamelas*, Paulo J. Ferreira	<b>A New Approach for the Modification of Paper Surface Properties by Polyoxometalates</b>	<i>Chemical Engineering Department, University of Coimbra, Pólo II – R. Sílvio Lima, 3030-790 Coimbra, Portugal</i>	T026
Mirtha G. Maximino 1,2 *, Ana M. Adell 1, Ma. Claudia Taleb 1	<b>Enzymatic Hydrolysis vs. Refining on Recycled Kraft Pulp</b>	<i>1</i> Instituto de Tecnología Celulósica. Facultad de Ingeniería Química. Universidad Nacional del Litoral. Santiago del Estero 2654. CP: S3000AOJ Santa Fe. Argentina. <i>2</i> Consejo Nacional de Investigaciones Científicas y Tecnológicas (CONICET). Santiago del Estero 2654. 3000 Santa Fe. Argentina	T133
Nuno J. Oliveira1*, António P. Mendes de Sousa2	<b>Characterizing Inkjet Printing Quality from Perception to Quantification</b>	<i>1</i> grupo Portucel Soporcel, Complexo Industrial da Figueira da Foz, Apartado 5, Lavos, P-3081-851 Figueira da Foz. <i>2</i> grupo Portucel Soporcel, RAIZ, Apartado 15, P-3801-501 Eixo, Portugal	T104
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Orlando Rojas	<b>Nanostructures Cleaved from Fiber Self-Assemblies and their Bioconversion</b>	<i>1</i> Department of Forest Biomaterials, North Carolina State University, Campus Box 8005, Raleigh, NC 27695 <i>2</i> Faculty of Chemistry & Materials Sciences, Dept. Forest Products Technology, Aalto University, P.O. Box 3320, FIN-02015 TKK, Espoo, Finland	T158
Paula C. O. R. Pinto1,2, Gabriel D. A. Sousa1, José Luís Amaral1*, Armando J. D. Silvestre3, Carlos P. Neto3, Filipe Crispim4, António F. S. Prates5	<b>Recovery of a Polyphenolic Fraction from <i>Eucalyptus globulus</i> Bark for Industrial Applications</b>	<i>1</i> RAIZ, Research Institute of Forestry and Paper, Quinta de S. Francisco, Apart. 15, 3801-501 Eixo, Portugal <i>2</i> On leave to LSRE/LCM, School of Engineering, University of Porto, 4200-465 Porto, Portugal <i>3</i> CICECO, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal	T066



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		<i>4CTIC, Techn. Centre for the Leather Industries, Rua da Estiveira, Apart. 158, 2384-909 Alcanena, Portugal</i>	
		<i>5CAIMA, Indústria de Celulose, S.A. Constância Sul, 2250-058 Constância, Portugal</i>	
Paula C. O. R. Pinto*, Eduardo A. B. Silva, Alirio E. Rodrigues	<b>Evaluation of Different Lignins for Oxidative Conversion to High Added-Value Phenolic Aldehydes</b>	<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</i>	T057
Pedro E. G. Loureiro*1, A. Sofia M. Santos1, Dmitry V. Evtuguin2, M. Graça V. S. Carvalho1	<b>Performance of a Final Hydrogen Peroxide Stage in Different ECF Bleaching Sequences</b>	<i>1CIEPQPF, Department of Chemical Engineering, University of Coimbra, 3030-790 Coimbra, Portugal</i> <i>2CICECO, Department of Chemistry, University of Aveiro, 3810-193 Aveiro, Portugal</i>	T076
Pedro E.G. Loureiro*1, António J.S. Fernandes2, Fernanda P. Furtado3, M. Graça V.S. Carvalho1, Dmitry V. Evtuguin4	<b>New Insights into Chromophore Chemistry of Eucalypt Pulp Assessed by UV-Resonance Raman Micro-Spectroscopy</b>	<i>1CIEPQPF, Departamento de Engenharia Química, Universidade de Coimbra, 3030-790 Coimbra, Portugal</i> <i>213N, Departamento de Física, Universidade de Aveiro, 3810-193 Aveiro, Portugal</i> <i>3RAIZ, Instituto de Investigação da Floresta e do Papel, Qta. São Francisco, Ap. do 15, 3801-501 Eixo, Portugal</i> <i>4CICECO, Department of Chemistry, University of Aveiro, 3810-193 Aveiro, Portugal</i>	T077
Pedro, Lopes1*, Carlos Preciso2, António Mendes de Sousa3, Paulo Ferreira2	<b>Sizing Evaluation of Uncoated Fine Papers</b>	<i>1 grupo PortucelSoporcel, Apartado 5 – 3081- 851 Figueira da Foz, Portugal</i> <i>2 Departamento de Engenharia Química, Universidade de Coimbra, Pólo II, R. Silvio Lima, 3030-290 Coimbra, Portugal</i> <i>3 grupo PortucelSoporcel, Apartado 15 – 3801- 501 Eixo, Portugal</i>	T063
Philippe A. Bringier1, Benno Bader2*	<b>Introduction of a New, Modern Roll Covering and Service Workshop Near Zaragoza</b>	<i>ISKAPA POLY TECK SL; Calle Bari 57, Centro de Negocio Ayanet, CP 50197 ZARAGOZA</i>	T188
Raj Gill*	<b>Advances in Use of Fibre Modification Enzymes in Paper Making</b>	<i>Buckman Laboratories S. A., Wondelgemkaai 159, 9000 Gent, Belgium</i>	T148
Raquel Martín-Sampedro1*, Esteban Revilla1, Juan A. Martín1, Maria E. Eugenio1, Juan C. Villar1	<b>Evaluation of Steam Explosion as a Pretreatment prior to Kraft Pulping of <i>Eucalyptus globulus</i> Wood</b>	<i>1Instituto Nacional de Investigación y Tecnología Agraria y Agroalimentaria INIA. Carretera de la Coruña, km 7.5, 28040, Madrid</i>	T051
Susana C. M. Fernandes*, Carmen S. R. Freire, Armando J. D. Silvestre, Carlos Pascoal Neto, Alessandro Gandini	<b>Novel Coated-Paper Materials Based on Chitosan and its Derivatives</b>	<i>Department of Chemistry and CICECO, Campus de Santiago, University of Aveiro, 3810-193 Aveiro, Portugal</i>	T166
Uwe Gisella, Maximilian Laufmann*	<b>Surface Filling of Woodfree Paper With Ground Calcium Carbonate</b>	<i>Omya International AG</i>	T022
Wagner Barreira1, Ricardo de L. Barreto2*, Marcia A. Abouchar1	<b>Chemical Pitch and Stickies Control</b>	<i>1CONTECH Produtos Biodegradáveis Ltda., Rua Catharina Farsarella Gallego, 126, Country Club, CEP 13278-073, Valinhos – SP, Brasil</i> <i>2CONTECH Produtos Biodegradáveis Ltda., Rua Catharina Farsarella Gallego, 126, Country Club, CEP 13278-073, Valinhos – SP, Brasil</i>	T145