

## Sesión de Posters

### Raw materials and pulping

- Improvement of Eucalyptus globulus chemical biopulping by using new endophytic fungi
- Application of enzymatic stages (laccase-xylanase) to obtain chemical pulp bagasse
- Integral utilization of waste bagasse: making mechanical pulp and application in manufacturing corrugated inner medium
- Chemical and morphological characterization of Moringa oleifera for its use in biorefineries. 1 papermaking aptitude
- Soda-AQ fractionation of pine sawdust for the forest biorefinery
- Delignification process study by numerical modeling of manganese peroxidase enzyme activity
- A method of disintegrated of woody tissues for microscopy using monoethanolamine in alkaline medium

### Nanotechnology and lignocellulosic materials

- Determination of the intrinsic properties of the fibers Curaua, used as a composite material reinforced with polypropylene
- Evaluation of fully biodegradable composites made with thermoplastic starch and very high-yield pulp of bagasse waste
- Superficial application of cellulose nanofibers: new strategy to improve the properties of paper
- Development of thermoplastic composites from forestry residues and polypropylene using thermoforming and injection molding
- Increased accessibility and reactivity of dissolving pulp through enzymatic and mechanical pretreatments
- Bacterial cellulose with antimicrobial properties for food contact applications
- The influence of surfaces properties in the development of solute exclusion zones in cellulosic materials
- Multi-walled carbon nanotube / NFC conductive nanopaper
- Synthesis polyurethane foam from cellulose fiber bagasse sugar cane
- Lignin - resorcinol - formaldehyde xerogels: physical properties
- Effect of fiber treatments on the properties of sisal fiber-polyester composites prepared by vacuum assisted molding
- Improved thermal stability of alkali-treated sisal fibers

- Drying of micro-fibrils of cellulose: a comparative study between solvent exchange and the use of additives
- Binary adsorption of nickel and cadmium using lignin of sugarcane bagasse
- Nanocellulose from non-wood sources: influence of mechanical treatments
- Evaluation of edible spray coatings with cellulose nanofibrils
- *Gluconacetobacter medellinensis*, a Colombian native strain for the bacterial nanocellulose production
- Evaluation of bacterial nanocellulose as scaffold for cell proliferation and tissue engineering

### **Secondary fibers and recycling**

- Cellulose nanofibers and enzymatic refining: an alternative solid conventional refining process in recycling processes
- Effect of successive recycling cycles on the application of NFC and biorefining of papermaking
- Recycling and recovery of the multilayer container components by a thermal process
- Cellulose recovery from tetra brick containers by treatment with cellulolytic enzymes from *trametes versicolor* pnc-023 cultures
- Influence of the size of the sample to recovery and use of multilayer container components by a mechanic treatment
- Separation of tetrabrik components and recovery of cellulose fibers by enzymatic treatment

### **Manufacture of paper, cardboard and boards**

- Semi-chemical rapeseed pulp for making bags and other papers for high performance
- Impact of the cationic demand of the recycled fiber suspension on the stability of alkaline-sized with AKD
- Influence of temperature and relative humidity in property paper packaging
- Characterization, adsorption kinetics and isotherms of cationic polyamine in bleached chemical bagasse pulp

### **Agroforestry biorefinery**

- Emerging biorefining technologies for cellulosic conversion to new materials
- Influence of biodegradation by xylophagous fungi in the characteristics of eucalyptus

- Effect of low hemicelluloses and high lignin content on processing and properties of wood plastic composites
- Adoption of biorefinery concepts in wood composite facilities by means of wood thermochemical pretreatment operations
- Obtaining Furans from hemicelluloses of hardwoods: a methodology for biorefineries
- Production of hydroxymethylfurfural from free pine hemicelluloses: a technology for biorefineries based on the use of an ionic liquid
- Characterization of Pinus pinaster lignin obtained by ethanol/water pulping
- Eucalyptus wood water extraction: effects on diffusing permeability and material removing
- Vanillin from an industrial pine Kraft black liquor in a reactor with recirculation
- Influence of pre-treatment on the enzymatic hydrolysis of pine sawdust
- Rheological studio of shear thickening behavior on corn starch suspensions
- Detoxification of the spent liquor from the hot water treatment of sugarcane bagasse
- Enzymatic hydrolysis of pretrated sugarcane bagasse by high solid content autohydrolysis and organosolv delignification

### **Environment**

- Chemimechanical pulping effluent treatment by advanced oxidation: I. Selection of variables
- Effect of waste paper sludge on the mechanical and thermal properties of polypropylene matrix composites

### **Industrial experiences and new products**

- Using lignocellulosic fibers to produce biopolymer composites
- Comparing pine and Eucalyptus fiber suspensions distribution behaviour using electrical impedance tomography