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## LGP2 - Communications at scientific congresses without proceedings - 2010

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### Oral presentations

1- BENEVENTI D., JABBOUR L., CHAUSSY D., ZENO E.

*Utilisation du papier pour la réalisation de batteries Li-ion souples.* 63ème Congrès Annuel de l'ATIP, Grenoble (France), 16-18 november 2010

2- BLOCH J.F., LHERMINER S.

*Influence of humidity on friction.* Contemporary Problems of Manufacturing and Production Management, 3rd International Conference on Manufacturing, Poznan (Poland), 24-26 november 2010, p. 25

3- BOSSARD F., EL KISSI N., D'APREA A., ALLOIN F., SANCHEZ J.Y., DUFRESNE A.

*Rheological investigation of polymer scission and aggregation induced by the dispersion in high molecular weight PEO solutions* 6th European Rheology Congress (AFRC)

High molecular weight (HMW) solutions. 6th European Nanotechnology Congress (ENEC), Göteborg (Sweden), 7-9 april 2010

4- BRAS J., HASSAN M., BRUZZESE C., HASSAN E.A., DUFRESNE A.

*Mechanical and barrier properties of bionanocomposites with cellulose whiskers from bagasse.* 239th ACS National Meeting, San Francisco (USA), 21-25 march 2010, Abstracts of Papers CELL-41

5- BRAS J., SENECHAL T., LE CORRE D., MARTIN C., DUFRESNE A.

*Cellulose and starch nanocrystals: influence of the source on rheological, mechanical and barrier properties.* 239th ACS National Meeting, San Francisco (USA), 21-25 march 2010, Abstracts of Papers CELL-25

6- BRUZZESE C., BROWN E., LABORIE M.P., DUFRESNE A., BRAS J.

*Mechanical properties of bionanocomposites with bacterial cellulose nanofibers and bacterial cellulose whiskers.* 239th ACS National Meeting, San Francisco (USA), 21-25 march 2010, Abstracts of Papers CELL-55

7- CHARVET A., ROLLAND DU ROSCOAT S., PERALBA M., BLOCH J.F., GONTHIER Y.

*Determination of the liquid aerosol distribution in a porous filter by synchrotron X-ray holotomography.* European Conference on Fluid-Particle Separation (FPS), Lyon (France), 2010

8- CHAUSSY D., SARRAZIN P., BENEVENTI D., STEPHAN O.

*Elaboration de papier photoluminescent.* 63ème Congrès Annuel de l'ATIP, Grenoble (France), 16-18 november 2010

9- CHIRAT C., LACHENAL D., SANGLARD M.

*Biorefinery in a kraft pulp mill: extraction of xylans from hardwood chips prior to the production of cellulosic paper pulp.* Congress on Biomass Derived Pentoses: from Biotechnology to Fine Chemistry, Reims (France), 14-16 november 2010

10- DA SILVA PEREZ D., TAPIN-LINGUA S., LAVALETTE A., BARBOSA T., GONZALEZ I., SIQUEIRA G., BRAS J., DUFRESNE A.

*Impact of nano/microfibrillated cellulose preparation on the reinforcement properties of paper and composites films.* TAPPI International Conference on Nanotechnology for the Forest Products Industry, Espoo (Finland), 27-29 september 2010

11- DUFRESNE A.

*Polymer nanocomposites reinforced with polysaccharide nanocrystals.* Séminaire de l'Universidade Federal da Paraíba, Joao Pessoa (Brazil), 5 juillet 2010

12- DUFRESNE A.

*Starch nanoparticles reinforced polymer nanocomposites.* Séminaire de l'Universidad Nacional de Mar del Plata, Mar del Plata (Argentina), 30 august 2010

13- GUIRAUD O., ORGEAS L., DUMONT P., FAVIER D.

*Etude des microstructures et des micromécanismes de déformation dans les composites SMC lors de leur mise en forme.* Séminaire Owens Corning, Chambéry (France), june 2010

14- GUIRAUD O., ORGEAS L., DUMONT P., ROLLAND DU ROSCOAT S., GEINDREAU C., FAVIER D.

*Etude portant sur la mise en forme des composites.* Séminaire Schneider Electric, Grenoble (France), july 2010

15- GUIRAUD O., ORGEAS L., DUMONT P., FAVIER D.

*Microtomographie à rayons X et essais d'extraction pour analyser les microstructures et les micromécanismes d'interaction mèche-mèche dans les suspensions concentrées de mèches.* Journées du Cluster Macodev, Sévrier (France), april 2010

16- GUIRAUD O., ORGEAS L., DUMONT P., FAVIER D.

*X-ray microtomography and pull-out test to analyze the microstructure and fibre-fibre interactions in a concentrated fibre bundle suspension.* 6th Annual European Rheology Conference, Göteborg (Sweden), april 2010

17- GUIRAUD O., ORGEAS L., DUMONT P., ROLLAND DU ROSCOAT S., FAVIER D.

*X-ray microtomography and pull-out test to analyze the microstructure and fibre-fibre interactions in a concentrated fibre bundle suspension.* Workshop of the European Research Group HetMat, Saint Vincent de Mercuze (France), july 2010

18- GUIRAUD O., ORGEAS L., DUMONT P., ROLLAND DU ROSCOAT S., FAVIER D.

*X-ray microtomography and pull-out tests to analyze the microstructure and fibre-fibre interactions in a concentrated fibre bundle suspension.* Journées AUM, Lorient (France), august 2010

19- MARULIER C., DUMONT P., ORGEAS L., CAILLERIE D.

*Modélisation du comportement thermo-hygro-mécanique des réseaux de fibres naturelles enchevêtrées.* Séminaire Macodev, Sévrier (France), march 2010

20- MISSOUM K., BELGACEM M.N., KROUIT M., MARTIN C., TAPIN-LINGUA S., BRAS J.

*Influence of fibrillation degree and surface grafting of micro-fibrillated cellulose on their rheological behaviour in aqueous suspension.* TAPPI International Conference on Nanotechnology for the Forest Products Industry, Espoo (Finland), 27-29 september 2010

21- PAQUET O., ZENO E., BROCHIER-SALON M.C., BELGACEM M.N.

*Silane coupling agents as wet end aids for papermaking process.* 240th ACS National Meeting, Boston (USA), 22-26 august 2010, Abstracts of papers COLL-386

22- PERALBA M., CHARVET A., ROLLAND DU ROSCOAT S., DUMONT P., BLOCH J.F., MANGIN P.

*Determination of collected particle repartition in filter using synchrotron X-ray microtomography coupled with a multiresolution method.* European Conference on

*microtomography coupled with a multiresolution method.* European Conference on Fluid-Particle Separation (FPS), Lyon (France), 2010

23- PERALBA M., CHARVET A., DUMONT P., ROLLAND DU ROSCOAT S., BLOCH J.F., MANGIN P.

*Multiresolution synchrotron X-ray microtomography applied to filtration studies.* Progress in Paper Physics Seminar, Montréal (Canada), 7-10 june 2010

24- ROUX J.C., BLOCH J.F., BORDIN R.

*Benchmarking of refining intensity indicators. Assessment of "SR-kinetics.* Progress in Paper Physics Seminar, Montréal (Canada), 7-10 june 2010

25- ROUX J.C., RUEFF M.

*Characterization of the fibre-water separation process through a suction box of a pilot paper machine.* European Conference on Fluid-Particle Separation, Lyon (France), 5-7 october 2010

26- SIQUEIRA G., FRASCHINI C., BRAS J., DUFRESNE A., PRUD'HOMME R., LABORIE M.P.

*Impact of two different cellulose nanoreinforcements on the melting and crystallization behavior of polycaprolactone.* 239th ACS National Meeting, San Francisco (USA), 21-25 march 2010, Abstracts of papers CELL 218

27- SIQUEIRA G., FRASCHINI C., BRAS J., DUFRESNE A., PRUD'HOMME R., LABORIE M.P.

*Impact of two different cellulose nanoreinforcements on the melting and crystallization behavior of polycaprolactone.* 53rd International Convention of the Society of Wood Science and Technology, Genève (Switzerland), 11-15 october 2010

28- THIABAUD A., MARTIN C., BELGACEM M.N., BRAS J.

*Influence of surface grafting on cellulose whiskers rheological properties.* 239th ACS National Meeting, San Francisco (USA), 21-25 march 2010, Abstracts of papers CELL 38

29- VIGUIE J., DUMONT P., DESLOGES I., MAURET E.

*Apport des nouvelles techniques expérimentales à l'étude des comportements mécanique et hygroexpansif des emballages cartons.* Congrès National de l'ATIP, Grenoble (France), 16-18 november 2010

## Poster presentations

30- BEN MABROUK A., KADDAMI H., MAGNIN A., BELGACEM M.N., DUFRESNE A., BOUFI S.

*Preparation of nanocomposite dispersions based on cellulose whiskers and acrylic copolymer by miniemulsion polymerization: effect of the silane content.* 7th International Symposium on Natural Polymers and Composites (7th ISNAPOL), Gramado (Brazil), 7-10 september 2010

31- BOULBIRL H., ROLLAND DU ROSCOAT S., ORGEAS L., GEINDREAU C., DUMONT P., VIDAL E., LASCAUD S., YRIEIX B.

*Collecteur fibreux pour batteries : analyse des microstructures fibreuses par microtomographie à rayons X et estimation des perméabilités.* Colloque National Mecamat, Aussois (France), January 2010

32- BRAS J., SENECHAL T., LE CORRE D., MARTIN C., DUFRESNE A.

*Cellulose and starch nanocrystals: influence of the source on rheological, mechanical and barrier properties.* 239th ACS National Meeting, San Francisco (USA), 21-25 March 2010, Abstracts of papers CELL 25

33- BRAS J., LEMAHIEU L., TIQUET P., SIQUEIRA G., AUGIER S., DUFRESNE A.

*Cellulose nanoparticles and alginate encapsulation for their use in extrusion process.* TAPPI International Conference on Nanotechnology for the Forest Products Industry, Espoo (Finland), 27-29 September 2010

34- BRAS J., HASSAN M., BRUZZESE C., HASSAN E., DUFRESNE A.

*Mechanical and barrier properties of bionanocomposites with cellulose whiskers from bagasse.* 239th ACS National Meeting, San Francisco (USA), 21-25 March 2010, Abstracts of papers CELL 41

35- BRUZZESE C., BROWN EL, LABORIE M.P., DUFRESNE A., BRAS J.

*Mechanical properties of bionanocomposites with bacterial cellulose nanofibers and bacterial cellulose whiskers.* 239th ACS National Meeting, San Francisco (USA), 21-25 March 2010, Abstracts of papers CELL 55

36- CUSOLA O., TABARY N., BRAS J.

*Functionalization of several cellulosic supports for the prolonged release of antibacterial agents.* 13èmes Journées du Club Français des Cyclodextrines", Dunkerque (France), 9-10 December 2010

37- EL SHELTAMI R.M., AHMAD I., ABDULLAH I., DUFRESNE A.

*Morphology and thermal stability of nanocellulose and cellulose extracted from mengkuang leaves", Innovative Wood Products are the Future.* 53rd International Convention of the Society of Wood science and Technology (SWST), Genève (Switzerland), 11-15 October 2010

38- GARCIA N.L., RIBBA L.G., LAMANNA M., D'ACCORSO N., DUFRESNE A., ARANGUREN M., GOYANES S.

*Green films from grafting of modified PLA onto starch nanocrystals.* 6th International European Centre for Nanostructured Polymers (ECNP) Conference on Nanostructured Polymers & Nanocomposites, Madrid (Spain), 28-30 April 2010

39- KUMAR S., JULIEN SAINT AMAND F., PASSAS R., FABRY B., SCHELCHER M.

*Lab scale fine fractionation of deinked pulp and particle microscopic analysis.* 21st TECNICELPA Conference and Exhibition, Lisbonne (Portugal), 12-15 October 2010

40- LATIL P., ORGEAS L., GEINDREAU C., ROLLAND DU ROSCOAT S., DUMONT P.

*Analyse des micro-mécanismes de déformation d'une mèche de fibres saturée par un fluide newtonien lors d'un essai de compression in-situ par microtomographie.* Colloque National Mecamat, Aussois (France), january 2010

41- LE CORRE D., BRAS J., DUFRESNE A.

*Starch nanocrystals for eco-efficient barrier coating: influence of formulation and process parameters.* 11th TAPPI Advanced Coating Fundamentals Symposium, Munich (Germany), 11-13 october 2010

42- MISSOUM K., LE CORRE D., DUFRESNE A., BELGACEM M.N., MARTIN C., BRAS J.

*Rheological behavior of different bio-based nanoparticles suspensions.* TAPPI International Conference on Nanotechnology for the Forest Products Industry, Espoo (Finland), 27-29 september 2010

43- SENECHAL T., DE GEISER F., DE BOISSIEU M., BRAS J.

*Study of cellulose whiskers orientation in nanocomposites for barrier packaging.* 6th International Conference on Nanostructured Polymers and Nanocomposites, Madrid (Espagne), 28-30 april 2010

44- SIQUEIRA G., TAPIN-LINGUA S., BRAS J., DA SILVA PEREZ D., DUFRESNE A.

*Enzymatic and acid hydrolysis of sisal fibers: morphological aspects of nanoparticles and influence on the mechanical properties of nanocomposites.* TAPPI International Conference on Nanotechnology for the Forest Products Industry, Espoo (Finland), 27-29 september 2010

45- SIQUEIRA G., DE MENEZES A.J., BRAS J., DUFRESNE A.

*Ramie and Luffa cylindrica nanowhiskers as reinforced phase in polycaprolactone.* Innovative Wood Products are the Future", 53rd International Convention of the Society of Wood science and Technology (SWST), Genève (Switzerland), 11-14 october 2010

46- VIGUIE J., DUMONT P., DESLOGES I., MAURET E., BLOCH J.F., VACHER P., ORGEAS L., ROLLAND DU ROSCOAT S.

*Applications des méthodes de corrélation d'images à l'analyse du comportement des cartons à l'hygroexpansion et au flambement lors de leur utilisation comme structures d'emballage.* Colloque National Mecamat, Aussois (France), 11-15 january 2010

## Research

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