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## LGP2 - Communications at scientific congresses without proceedings - 2013

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### Oral presentations

1- BARDET R., PERRIN V., BELGACEM N., BRAS J.

*Physical phenomena on fonctionnalized cellulose nanocrystals forward the development of active materials.* 3rd EPNOE International Polysaccharide Conference, Nice (France), October 21-24, 2013

2- BLOCH J.F., ALI I., PASSAS R., ROLLAND DU ROSCOAT S.

*Papers as functional green materials.* 4th International Conference on Multi-Functional Materials and Structures, Bangkok (Thaïlande), July 14-17, 2013

3- BLOCH J.F.

*Papers at multiscale biobased materials: From microstructure design to architecture materials.* INPAP 2013. Kudowa Zdroi (Pologne), June 19-21, 2013

4- CHIRAT C., SANGLARD M., JARMAN B., LACHENAL D.

*Extraction of hemicelluloses from Eucalyptus Globulus woodchips for their valorisation into surface-active agents.* WoodChem congress, Nancy (France), September 26-27, 2013

5- CORROYER E., CHAUSSY D., WERY S., BELGACEM N.

*Characterization of commercial polyvinylbutyrals.* European Polymer Congress, Pisa (Italie), 16-21 juin 2013

6- CURTO J.M.R., CONCEICAO E.L.T., BLOCH J.F., PORTUGAL A.T.G., SIMOES R.M.S.

*Characterization and optimization of paper using 3D computational simulation and synchrotron X-ray microtomography.* 22nd TECNICELPA International Forest, Pulp and Paper Conference, Tomar (Portugal), October 2-4, 2013

7- DUMONT P.J.J., VIGUIE J., LATIL P., ORGEAS L., ROLLAND DU ROSCOAT S., BLOCH J.F., MARULIER C., GUIRAUD O.

*Une méthode pour identifier les fibres et les contacts entre fibres dans des images 3D de milieux fibreux.* GDR CNRS 3MF, Nancy (France) November 2013.

8- ESPINO PEREZ E., DOMENEK S., ALMEIDA G., BRAS J.

*Physical phenomena on functionalized cellulose nanocrystals forward the development of active materials.* 3rd EPNOE International Polysaccharide Conference, Nice (France), October 21-24, 2013

9- JABBOUR L., DESTRO M., CHAUSSY D., GERBALDI C., PENAZZI N., BODOARDO S., BENEVENTI D.

*Toward eco-friendly all-paper Li-ion batteries.* Batterie 2013, Nice (France), October 14-16, 2013

10- JIN Y., HENGL N., BAUP S., PIGNON F., GONDREXON N., MAGNIN A., RHOMDHANE A., GUILLET A., MAURET E., SZTUCKI M., NARAYANAN T.

*In-situ SAXS characterization of starch nanocrystals and cellulose nanocrystals dispersions submitted to simultaneous ultrasonication, shear flow and pressure during cross-flow membrane separation processes.* 3rd EPNOE International Polysaccharide Conference, Nice (France), October 21-24, 2013.

11- KUMAR S., JULIEN SAINT AMAND F., PASSAS R., FABRY B., CARRE B.

*Fractionation by micro-hole pressure screening and hydrocyclone applied to deinking line rationalization and future manufacturing concept.* TAPPI PEERS & 10th Research Forum on recycling, Green Bay (USA), September 15-18, 2013

12- LATIL P., DUMONT P.J.J., ROLLAND DU ROSCOAT S., ORGEAS L., JOFFRE T.

*Observation de l'hygroexpansion de fibres lignocellulosiques à partir d'images 3D.* GDR CNRS 3MF, Nancy, France, November 2013.

13- LATIL P., VIGUIE J., ORGEAS L., ROLLAND DU ROSCOAT S., DUMONT P.J.J., GEINDREAU C., LE CORRE S.

*Trouver et suivre des fibres dans un milieu fibreux qui se déforme*. GDR CNRS analyse d'images 3D, November 2013.

14- LATIL P., ROLLAND DU ROSCOAT S., ORGEAS L., GEINDREAU C., DUMONT P.J.J., LE CORRE S.

*Une mèche de fibres en flexion*. GDR 3MF, Grenoble, France, June 2013

15- LAVOINE N., GIVORD C., DESLOGES I., BRAS J.

*Elaboration of a new antibacterial bio-nano-material for food-packaging application by grafting of cyclodextrine and coating of microfibrillated cellulose*. 3rd EPNOE International Polysaccharide Conference, Nice (France), October 21-24, 2013

16- ROLLAND DU ROSCOAT, DUMONT P.J.J., GUIRAUD O., LATIL P., ORGEAS L., BLOCH J.F., GEINDREAU C., VIGUIE J.

*Analyse 3D micro-structurale de composites polymère fibreux : apport du contraste de phase et de la recombinaison de phase*. Club 3D Noesis, Grenoble (France) April 2013.

17- ROMDHANE A., JIN Y., AUROUSSEAU M., GUILLET A., MAURET E., HENGL N., BAUP S., PIGNON F.

*Microfiltration of waxy maize starch hydrolysate to isolate starch nanocrystals*. FILTECH 2013, Wiesbaden (Germany), October 22-24, 2013.

## Poster presentations

17- BARDET R., ROMDHANE A., PERRIN V., AUROUSSEAU M., BELGACEM M.N., GUILLET A., MAURET E., BRAS J.

*Investigation of different post-treatments of nanocrystalline cellulose in order to obtain narrowly dispersed rods*. 2013 TAPPI International conference on nanotechnology for renewable materials, Stockholm (Sweden), June 24-27, 2013

18- CHEYRON H., MISSOUM K., BELGACEM N., BRAS J.

*Grafting of stimuli responsive polymer onto tempo mediated microfibrillated cellulose via click chemistry*. 3rd EPNOE International Polysaccharide Conference, Nice (France), October 21-24, 2013

19- CONDES C., AÑÓN M. C., DUFRESNE A., MAURI A.

*Películas proteicas de soja reforzadas con nanocristales de almidón de maíz*. X Simposio Argentino de Polímeros (SAP), Buenos Aires (Argentina), August 28-30, 2013

20- ESPINO PEREZ E., BRAS J., BELGACEM N., DOMENEK S.

*Towards a green chemistry for surface functionalization of cellulose nanocrystals: the case of aroma grafting compounds*. International Conference on Nanotechnology for Renewable Materials, Stockholm (Sweden), June 24-27, 2013

21- HERISSON A., AUROUSSEAU M., MARLIN N., BENEVENTI D.

*Dégradation de contaminants modèles présents dans les papiers de récupération durant l'opération de désencrage par flottation réactive à l'ozone.* 14ème Congrès de la Société Française de Génie des Procédés, Lyon (France), October 8-10, 2013, Récents Progrès en Génie des Procédés, 2013, n°104

22- KUMAR S., JULIEN SAINT AMAND F., PASSAS R., FABRY B., LETURQ A., CARRE B.

*Micro-hole pressure screening and hydrocyclone fractionation applied to mechanical pulps for fractions generation.* International Mechanical Pulping Conference, Helsinki (Finland), June 2-5, 2013

23- LAVOINE N., BIGAND V., DESLOGES I., TAPIN-LINGUA S., BRAS J.

*Use of different quality of MFC for producing controlled release films.* International Conference on Nanotechnology for Renewable Materials, Stockholm (Sweden), June 24-27, 2013

24- ROMDHANE A., GUILLET A., MAURET E., AUROUSSEAU M., HENGL N., PIGNON F.

*Membrane separation processes for starch nanocrystals production.* 3rd EPNOE International Polysaccharide Conference, Nice (France), October 21-24, 2013, pp. 373

25- SAINI S., BELGACEM N., BRAS J.

*Synthesis, characterization and antimicrobial activity assessment of surface modified microfibrillated cellulose by phenyl isothiocyanates.* 3rd EPNOE International Polysaccharide Conference, Nice (France), October 21-24, 2013

26- SAINI S., MISSOUM K., CAUSIO J., SADOCCO P., BELGACEM N., BRAS J.

*Influence of chemical grafting of MFC on antibacterial activity.* International Conference on Nanotechnology for Renewable Materials, Stockholm (Sweden), June 24-27, 2013

27- TIMHADJELT L., BELGACEM N., SERIER A., BRAS J.

*Surface modification of cellulose nanocrystals for similar cellulose derivatives interface in cellulose nanocomposites.* 3rd EPNOE International Polysaccharide Conference, Nice (France), October 21-24, 2013

## Workshops

### 28- DUFRESNE A.

*Nanocellulose, the next big nano-thing ?* Department of Pulp and Paper, National Research Centre, Cairo (Egypt), March 27, 2013

### 29- DUFRESNE A.

*Nanocellulose, the next big nano-thing ?* University of Natural Resources and Life Sciences, Vienne (Austria), April 26, 2013

### 30- DUFRESNE A.

*Polymer nanocomposites reinforced with nanoparticles extracted from renewable resource.* Department of Materials Engineering, Universidade Federal de São Carlos, São Carlos (Brazil), November 19, 2013

### 31- DUFRESNE A.

*Polymer nanocomposites reinforced with nanoparticles extracted from renewable resource.* Physics, Chemistry and Mathematics Department, Universidade Federal de São Carlos, Sorocaba (Brazil), November 22, 2013

### 32- LATIL P., VIGUIE J. GUIRAUD O., ORGEAS L., DUMONT P.J.J., ROLLAND DU ROSCOAT S., GEINDREAU C., LE CORRE S.

*Experimental micro-mechanics of fibrous media.* Séminaire PIMM, ENSAM, Paris (France), January 2013.

### 33- PASSAS R., KHELIFI B., MANSHIP B., PARY V.

*Microscopie électronique à balayage environnementale : applications aux fibres papetières.* 4e Journées Scientifiques et Techniques du RµI, Nancy (France), November 13-15, 2013

### 34- ROUX J.C.

*Une incursion dans le monde fascinant des papiers couchés.* Rencontres Thématiques de l'ARSAG, Paris (France), March 28, 2013

### 35- ZERU A., RUEFF M., PELLOUX-PRAYER S., PIERUCCI J.

*Intégration énergétique d'un site de production de papier.* Journée thématique de la Société Française de Thermique "Optimiser la récupération de chaleur dans les procédés industriels - Résultats du projet CERES2", Paris (France), November 22, 2013

## Research

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