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INTERNATIONAL WORKSHOP

Future of fibre based biomaterials for packaging ?



With the joint effort of TekLiCell

TekLiCell

The international school of paper, print media and biomaterials

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8th Pagora Days
July 2-3, 2009 Grenoble

The international school of paper, print media and biomaterials
Grenoble Institute of Technology

Future of fibre based biomaterials for packaging ?

Day 1 : BIOCOMPOSITES & NANO-COMPOSITES

9 h 30 **Key-note introduction**
Biocomposites : new developments & recent advances
Charlyse Pouteau, PEP

Session 1 : Raw materials for biocomposites

10 h 00 **Why using biomass for composite ? Tutorial**
Naceur Belgacem, Grenoble INP-Pagora

10 h 30 **Natural fibres : recent advances ? Tutorial**
Laurent Augier, Fibres Rech. & Dev (FRD)

11 h 00 **Coffee break**

11 h 30 **Biopolymers : new directions in packaging ? Tutorial**
David Plackett, RISOE-DTU, Denmark

12 h 00 **Polysaccharide nanocrystals : new filler for nanocomposites ? Tutorial**
Mohammad L. Hassan, NRC, Le Caire
Alain Dufresne, Grenoble INP-Pagora

12 h 30 **Lunch**

Session 2 : Process for biocomposites manufacturing

14 h 00 **Thermoset biocomposite, processes and examples from industry**
Yves Gardet, Compositec

14 h 30 **Processes of polymer composites : towards the use of natural fibres**
Laurent Orgéas, 3SR - CNRS

15 h 00 **Development of wood fibre reinforced cellular composites within SustainComp - a large collaborative European research project**
Cristian Neagu, EPFL Switzerland

15 h 30 **Coffee break / Poster SESSION**

Session 3 : Biocomposites properties

16 h 30 **Hygroexpansion of plant-based fiber mats for “green” composites**
Pierre Dumont, Grenoble INP-Pagora

17 h 00 **From biocomposite to bionanocomposite, influence of fillers' scale ?**
Gilberto Siqueira, Grenoble INP-Pagora

17 h 30 **Food contact : the state of the art**
Isabelle Desloges, Grenoble INP-Pagora

18 h 00 **TekLiCell platform presentation : cocktail**

20 h 00 **Dinner at La Bastille - Restaurant Chez Le Per'Gras**

Day 2 : FUNCTIONAL FIBRE BASED BIOMATERIALS

Session 4 : Functional fibre for biocomposites

9 h 00 **Water based cellulose fibre modification**
Eliza Zeno, CTP

9 h 30 **Radiation grafting for functionalizing of cellulose, state of the art**
Sophie Rouif, Ionisos

10 h 00 **Active fibre based biopackaging : state of the art and examples from Sustainpack**
Julien Bras, Grenoble INP-Pagora

10 h 30 **Coffee break**

11 h 15 **Round-table: biomaterials for packaging, is there a place for industrial application ?**
Chairman: Naceur Belgacem
V. Coma (USB2), D. Da Silva (FCBA), P. Dole (UMR FARE), F. Bébien (Ahlstrom), M.J. Villette (Tembec), C. Douki de Boissoudy (Novamont), J.P. Kundura (Lu)

12 h 15 **Lunch**

Session 5: Functional coating for fibre based packaging

13 h 45 **Starch based barrier coating, example of a new European project 'FlexpakRenew'**
David Guérin, CTP & Frederic Bébien, Ahlstrom

14 h 15 **Active and anti-microbial coating for biopackaging**
Véronique Coma, USB2

14 h 45 **New polysaccharides for bio-active properties**
Rachel Auzely, CERMAV

15 h 15 **Microencapsulation : new solution for active properties ?**
Naceur Belgacem, Grenoble INP-Pagora

15 h 45 **Conclusion**

16 h 00 **End of workshop**