



Latest results and main advances

Innovating in fibre based flexible packaging through, water based barrier coatings, anti microbial coatings, nanotechnologies and life cycle analysis.

WORKSHOP

May 10, 2011

**NH Hoteles,
Lyon Airport, Terminal 1**



Reasons to attend



In brief...

Update trends in barrier paper based packaging and get an overview of the results generated in Flexpakrenew

- Learn how **LCA** can be used to guide project direction and assess new products
- Hear how value-added **materials from the biorefinery** can be used in packaging; new bionanoparticles – such as nanocellulose and nanostarch; from the potential of xylan derivatives and new multi-component microcapsules prepared using food contact materials
- Access the potential of combining **starch, nanoclays** and other **biopolymers** and how to achieve lab properties at the pilot date
- Discover strategies to incorporate **antimicrobial activity** into a coating layer
- Share key developments on nanotechnologies: **vacuum coating and chromatogeny** to enhance barrier properties and improve the performance of fibrebased materials

Who should attend ?

This event is the only forum where the most prominent findings from **Flexpakrenew** will be presented for the first time. Whether you are **researcher** in the field of barrier coating or **brand owner, packaging buyer, packaging converter, paper and board manufacturer or retailer** of packaged goods, this conference is a unique opportunity to get up-to-date information about paper based flexible packaging and to engage with top scientists in this field.





Objectives

Framework

Flexpakrenew is a Small and Medium-Scale focused **collaborative research project**, financed by European Commission (grant agreement 207810) under the FP7 framework program addressing the main work program topic: NMP-2007-2.4-3 : Renewable materials for functional packaging applications.

Eco efficiency

Special attention will be paid to sustainability assessment and life cycle analysis throughout the project, namely regarding **eco-efficient material processing**, optimised recycling ability and **biodegradability**. A substantial reduction in the amount of packaging going to landfill is expected, together with considerably faster environmental degradation of the new packaging materials. The development of the new packaging products for a global market will make a significant contribution towards the **reduction of the dependency** of the packaging sector on **petroleum resources** and the **reduction of greenhouse gas emissions**. The project will strengthen the position of **Europe** as a **lead market** in the area of packaging.

Markets addressed

The global demand for **flexible packaging** is forecast to increase by 3.5% annually until 2013 reaching approximately 19 millions tons per year. The demand in **Europe is the largest market** for these packaging grades and exceeds that of the US and Canada combined. Flexible packaging for food and non food goods are the two targets of **Flexpakrenew**.





PROGRAMME Workshop - May 10th, 2011

9:30 – 10:00

Welcome, Coffee

10:00 – 11:00 – Session 1

Introduction, market trends and expectations

- **Trends in functional and barrier paper-based packaging**
David Guérin, CTP
- **Introduction to Flexpakrenew**
David Guérin, CTP
- **The role of LCA in guiding projects**
Catharina Hohenthal, Sini Veuro, VTT

11:00 – 11:15

Coffee break, posters and networking

11:15 – 12:30 – Session 2

Innovative bio-based materials for water-based barrier coating

- **Biomaterials in current uses and the focus in Flexpakrenew**
David Guerin & Florence Girard CTP, Julien Bras, Pagora
- **Xylan from wood biorefinery - a novel approach**
Riku Talja, Kristiina Poppius-Levlin, VTT
- **Starch nanocrystals: The new bionanoparticles?**
Deborah Le Corre, Julien Bras, Alain Dufresne (Pagora)
- **Biobased microcapsules Improving the converting properties of packaging**
Artur Bartkowiak, Agnieszka Romanowska-Osuch, West Pomeranian University of technology)

12:30 – 13:30 Lunch





PROGRAMME Workshop - May 10th, 2011

13:30 –14:45 – Session 3

Exploiting the synergies between starch, nanoclay and other additives to enhance the barrier properties of paper

- Starch coatings – striking a balance between the benefits and the drawbacks.
- Positive outcomes from Flexpakrenew
- The challenges remaining
- Upscaling laboratory studies to pilot processes
(Chris Breen, Sheffield Hallam University, Lars Järnström, Karlstad University, Frédéric Bébien, Ahlstrom)

14:45 – 15:15

Coffee break, posters, demonstrators and networking

15h15 – 16H30 – Session 4

Functional coatings for food packaging

- Antimicrobial coatings : state of the art and recent advances
Peter Muranyi, Fraunhofer IVV, Artur Bartkowiak, West Pomeranian University of Technology
- Organic and inorganic nanolayers to improve barrier properties
Klaus Noller, Fraunhofer IVV, David Guérin, CTP, Camélia Stinga, Cermav CNRS

16:30 – 17:00

Closure and concluding remarks



Organization

Organization

This WORKSHOP is organized by Centre Technique du Papier, Ahlstrom, Grenoble INP Pagora and Fraunhofer IVV in name of all the partners.

Registration

Contact: Malou Caillat
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Duration: 1 day

Date: 10 May 2011

Language: English

Timing schedule: 9.30 – 17.00

Place: NH Hoteles, Lyon Airport, Terminal 1.

The map for the access to the hotel is available on request.

Workshop Fees

The fees include entry to workshop sessions, printed and electronics documentation, lunch, coffee & refreshments.

Price: 130 € (VAT included).

Please REGISTER before April 20th to:

Hotel Accommodation

Available on request or on the website

<http://www.nh-hotels.com/events>





Registration Form

FlexPakRenew WORKSHOP Tuesday 10th May 2011

PERSONAL INFORMATION

First Name:Last Name:

Position:e-mail:

Phone:Mobile:

Company Name:

Address:

Post Code:Town:

Country:

Registration fees : 130€(VAT included) – (all fees must be paid in Euros)

Please bill my credit card

Visa card Master card

Card Number

Expiry Date

Card Holder Name.....

Date:

Signature

I will pay by cheque (made payable in Euros to CTP)

I will pay by wire transfer

Account Name: CENTRE TECHNIQUE DU PAPIER

Bank Name: LCL - Le Crédit Lyonnais

IBAN: FR74 3000 2026 2500 0006 0580 X16

SWIFT: CRLYFRPP

VAT NUMBER (Required for EC countries):

Please **register before April 20th** and return your registration form to
Malou.Caillat@webCTP.com or by fax to **+33 (0)476 154 060**





10 partners
6 countries

This project is coordinated
by David Guérin from CTP



www.FlexPakRenew.eu