

Functionalising Fibres

Global trends towards **sustainable development** have brought an increase in the use of **cellulosic fibres** for both conventional and new products including fiber webs, reinforcing for composite materials, carriers for adsorbing materials and insulation, among others.

For all of these and for future uses, technical demands become more and more exacting.

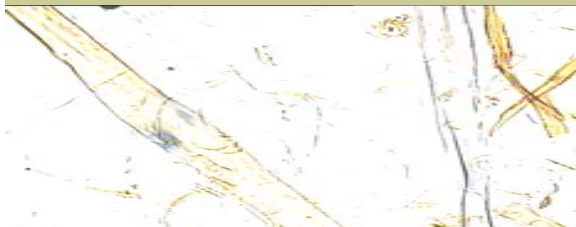
Modifying the fibres seems a **suitable way** to meet the standards required and to introduce fibres into product manufacture.

The chemical nature of fibres may be changed almost indefinitely by grafting onto their surface a large number of functional groups according to the properties required.

Workshop will be useful for...

Cellulosic fibre users and those who will influence their use.
Technology correspondents from industries producing products such as:

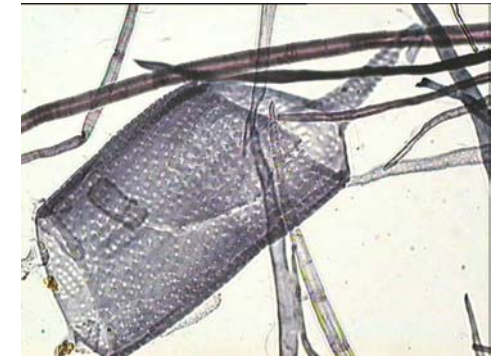
Pulp & paper, building materials, insulation, composites, human and animal food, cosmetics, medicine, bio-polymers, fine chemicals.....



FIBRE FUNCTIONALISATION WORKSHOP

September 8 & 9, 2005

CTP - Grenoble - France



Organisation



CENTRE TECHNIQUE DU PAPIER
Domaine Universitaire
BP 251
38044 Grenoble - Cedex 9 - France

Programme

Fibre Functionalisation Workshop September 8 & 9, 2005

Thursday, Sept 8th 2005

Welcome : 9.00-9.30

Morning Session: 9.30-12.30

1. The different chemical modifications of cellulose fibre surfaces: A review
Naceur Belgacem (EFPG/France)
2. Fibre surface modifications in papermaking
Elisa Zeno (CTP/France)
3. Cationic groups grafting onto cellulose/wood and their effect on resulting composite materials
Bernard Riedl
(Laval University /Canada)

11.00-11.30 Coffee break

4. Cationization of cellulose
Eric Gruber (University of Darmstadt/Germany)
5. Chemical modification of sugarcane bagasse fibres by chlorine dioxide and furfuryl alcohol. Application to composites and panels
Alain Castellan (University of Bordeaux/France)

Lunch break: 12.30-14.00

Afternoon session: 14.00-16.30

6. Novel functional fibres prepared by molecular relocation of wood polymers
Paul Gatenholm (Biopolymer technology, Dpt of chemical biological engineering/Sweden)
7. New hybrids of cellulose fibres obtained by in situ deposition of titanium dioxide
Paula Marques
(University of Aveiro/Portugal)

15.00-15.30 Coffee Break

8. Perspectives for chemical modification of cellulosic fibres by « chromotogenic » chemistry
Daniel Samain (Cermav/France)
9. Overview of fibre characterisations with specific attention to immunolabelling methods
Valérie Meyer (CTP/France)

Friday, Sept 9th 2005

Session: 9.00-15.00 (including Lunch)

10. Cellulose microfibril materials and surface modification strategies
Lars BERGLUND
(Lulea University/Sweden)
11. **ROUND-TABLE**
Fibre Functionalisation:
existing and future

Venue: CENTRE TECHNIQUE DU PAPIER

Organisers : CTP - EFPG

Accommodation: We have negotiated special rates at a number of hotels.

For booking, please contact directly the hotels

Language: English

Special event:

Workshop Dinner on

Thursday, Sept 8th 2005 with participants and speakers

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Domaine Universitaire
BP 251
38044 Grenoble - Cedex 9 - France
Cedex 9—FRANCE

Contact: Malou CAILLAT
E-mail: Malou.Caillat@webCTP.com
Direct line: 33 (0) 4 76 15 40 69
Fax: 33 (0) 4 76 15 40 60