



Grenoble, March 14<sup>th</sup>, 2006

Dear Madam, Dear Sir,

We invite you to join us for the first Workshop of the SUSTAINPACK Sub-Project 5, in the frame of the fifth session of the EFPG Days which will be held on May 10, 2006 at EFPG in Grenoble. The main results obtained so far in the field of 3D composites based on cellulosic fibers in the EU funded SUSTAINPACK project will be presented.

During this workshop you will be informed about the state of the art and the last research results obtained in the areas of thermoplastic material based on cellulosic fibers and renewable polymeric matrices, and of cushioning material based on fibers or microfibrillated cellulose and matrices. The ultimate goal is to replace the petroleum based counterparts. The attached programme gives you the list of the topics which will be actually covered.

The researchers of the different partners of SP5 will be giving the lectures, and will be answering your questions

The content of the lectures will be specially organized to fit an audience of industry and research and development people interested composites made from cellulosic fibers and renewable matrices, as well as suppliers willing to know about new opportunities for their products or equipments. Time will be left for discussions and exchanges and special care will be taken to make this event most fruitful and enjoyable.

Looking forward to welcoming you to Grenoble next May,

Yours sincerely,

Dr Christine Chirat

SP5 coordinator

[www.efpg.inpg.fr](http://www.efpg.inpg.fr)

[www.sustainpack.com](http://www.sustainpack.com)

Professor Naceur Belgacem

SP5 workshop chairperson



**Sustainpack SP5 Workshop**  
**3D Fiber Based Composites : state of the art and most relevant results obtained in Sustainpack SP5 Sub-Project**

in the frame work of the 5<sup>th</sup> EFPG Days  
May 10, 2006, EFPG , Grenoble, France

**Workshop programme**

- 8h30 - 9h30 : Registration
- 9h30-10h00 : Opening remarks  
*Christine Chirat, SP5 coordinator, EFPG, France*  
*Kennert Johansson, SUSTAINPACK coordinator, STFI-Packforsk, Sweden*
- Session 1 : 3D fiber based composites for thermoplastic applications***  
*Chairman : Naceur Belgacem, EFPG, France*
- 10h00 – 10h30 : General introduction to composite materials made from cellulosic fibers (State of the art)  
*Alain Dufresne, EFPG, France*
- 10h30 – 11h00 : Review of the different processing techniques used to produce thermoplastic composites (State of the art)  
*Maria Angel Pelach University of Girona , Spain*
- 11h00 - 11h30 : coffee break
- 11h30-12h00 : Chemical modifications of fibers – Part 1 – Impact on composite properties  
*Wim Thielemans, EFPG, France*
- 12h00 – 12h30 : Chemical modifications – Part 2 - Impact on composite properties  
*Fredrik Berthold, STFI-Packforsk, Sweden*
- 12h30 – 13h00 : Preparation, properties and potential applications of hybrids from cellulosic fibres and nano-minerals  
*Paula Alexandrina Marques, University of Aveiro, Portugal,*
- 13h00-14h00 : lunch

**Session 2 : 3D based composites for cushioning applications**

*Chairperson : Patrizia Sadocco, SSCCP, Italy*

14h00-14h30 : General introduction to cushioning materials  
*Lars Berglund, KTH, Sweden*

14h30-15h00 : Starch based foam : processing, properties and applications.  
*Anna Svagan, KTH, Sweden*

15h00 - 15h30 : Cushions made from dry-refined fibers  
*Pirjo Yli-Viitala, University of Oulu, Finland,*

15h30 – 16h00 : Coffee break

**Session 3 : Food contact and recycling ability of the composites**

*Chairperson : Maria Angel Pelach, University of Girona, Spain*

16h00 – 16h30: Paper and plastic, compliance with food contact legislation. Assessment and application for innovative composite materials  
*Giovanna Ferrari, SSCCP, Italy*

16h30- 17h00 : Packaging Recyclability according to the European Packaging and Packaging Waste Directive (94/62/EC). Material Recycling and Organic Recovery, requirements and application of CEN technical norms to composites.  
*Patrizia Sadocco, SSCCP, Italy*

17h00 : Concluding remarks,

17h10 end of the workshop

19h30 : Dinner



*The 5<sup>th</sup> EFPG Days*  
**SUSTAINPACK SP5 WORKSHOP**  
**2006 Sessions**

## Registration Form

Please send this form to Christine Chirat, Fax : 33 4 76 82 69 33 **before April 21, 2006**

Information
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Last Name :

First Name :

Job title :

Company :

Address :

City

ZIP

Country

Telephone

Fax

E-mail address

Registration fees (check only one)
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Individual participant :400 euros (478.4 euros TTC for French companies)

University staff :200 euros (239.2 euros TTC for French Universities)

### Payment options :

I have enclosed my check for the full amount

I have made a bank transfer for the full amount (see the bank coordinates below)

#### Bank coordinates for **national** payment

Code Banque : 10468 Code Guichet : 02486 N° compte : 29423400200 Clé RIB : 84

Domiciliation : Saint-Martin d'Hères Titulaire du compte : AGEFP

#### Bank coordinates for **international** payment

IBAN : FR 76 1046 8024 8629 4234 0020 084

BIC : RALPFR2G

Account owner : AGEFP

Note 1: we will send you a receipt upon reception of your payment

Note 2 : Registration fees include lecture notes, coffee breaks, the lunch and the dinner. Registration fees will be refunded if written cancellation is received before April 30, 2006 by fax or e-mail. A 50 euros cancellation fee will have to be paid anyhow. Cancellation received after this date cannot be refunded. However substitution by another delegate is free of charge

*Please photocopy this form as necessary for multiple registrants*



*The 5<sup>th</sup> EFG Days*  
**SUSTAINPACK SP5 WORKSHOP**  
**2006 Sessions**

### General information

**Contact :** Christine Chirat  
E-mail : [Christine.Chirat@efpg.inpg.fr](mailto:Christine.Chirat@efpg.inpg.fr)

**Location :** Ecole Française de Papeterie et des Industries Graphiques (EFG)  
461 rue de la Papeterie, University Campus  
38402 Saint-Martin d'Hères, France

**Registration (before April 21, 2006) :** To be sent to the attention of Christine Chirat at the above coordinates

**Fee :** see registration form enclosed

**Hotels :** Please find below a selection of hotels. You are kindly asked to make your own reservation. The prices are indicative.  
Information about Grenoble : <http://www.ville-grenoble.fr> or [www.grenoble-isere-tourisme.com](http://www.grenoble-isere-tourisme.com)

\*\* Hotels, downtown Grenoble

Hôtel des Alpes\*\*  
45 Avenue Félix-Viallet – 38000 Grenoble  
☎ 04 76 87 00 71 ☎ 04 76 47 21 25  
*Single 30 € - Double 45 €*

Hôtel IBIS Grenoble Centre\*\*  
5 Rue Miribel – 38000 Grenoble  
☎ 04 76 47 48 49 ☎ 04 76 47 78 22  
e-mail : [accor@hotel.com](mailto:accor@hotel.com)  
[www.ibishotel.com](http://www.ibishotel.com)  
*Single or double 73 €*

HOTEL SUISSE ET BORDEAUX\*\*  
6 Place de la Gare – 38000 Grenoble  
☎ 04 76 47 55 87 ☎ 04 76 46 23 87  
e-mail : [info@hotel-sb-grenoble.com](mailto:info@hotel-sb-grenoble.com)  
[www.hotel-sb-grenoble.com](http://www.hotel-sb-grenoble.com)  
*Single 42 € - Double 48€*

\*\*\* Hotels, downtown Grenoble

Hôtel d'Angleterre Tulip Inn\*\*\*  
5 Place Victor-Hugo – 38000 Grenoble  
☎ 04 76 87 37 21 ☎ 04 76 50 94 10  
e-mail : [hotel-angleterre@hotel-angleterre.fr](mailto:hotel-angleterre@hotel-angleterre.fr)  
[www.hotel-angleterre.fr](http://www.hotel-angleterre.fr)  
*Single 84 to 130 or Double 130 €*

NOVOTEL Grenoble Centre\*\*\*  
7 Place Robert-Schuman – 38000 Grenoble  
☎ 04 76 70 84 84 ☎ 04 76 70 24 93  
e-mail : [H1624@accor-hotels.com](mailto:H1624@accor-hotels.com)  
[www.novotel.com](http://www.novotel.com)  
*Single 98 to 160 € - Double 104 to 160 €*

\*\* Hotel close to the university campus

Hôtel IBIS Université\*\*  
Rue de la Condamine – ZI de Mayencin -  
38610 Gières  
☎ 04 76 44 00 44 ☎ 04 76 51 03 58  
e-mail : [accor@hotel.com](mailto:accor@hotel.com)  
[www.ibishotel.com](http://www.ibishotel.com)  
*Single or double 64 €*

**Travelling** : There are different ways to reach Grenoble :

- by plane : you fly to Lyon St Exupéry airport, and then take a shuttle to Grenoble downtown railway station (20 euros one way, 30 euros round trip ticket) or a rental car (1 hour driving). You can also fly to Geneva, Switzerland and then take a train to Grenoble or a rental car (it takes about 2 hours to drive from Geneva airport to Grenoble)
- by train : you fly to Paris, and then you can take the TGV (high speed train) from Paris Charles de Gaulle airport (3 hours and a half) , or from Paris-Gare de Lyon (3 hours), to Grenoble downtown.
- By car, see the map below.

To reach EFPG from Grenoble downtown : take either a taxi (about 10-15 euros) or the tramway (take the line “Domaine Universitaire”) and exit at the terminus, then there is a 10 minute walk to EFPG, see the map below.



