



Join us for the
EFG Days
October 11-12, 2005



Last developments in pulp bleaching
Ozone bleaching - Chemical modification of fibers

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PRELIMINARY PROGRAMME

Fourth EFPG Days, October 11, 12, 2005 Grenoble, Alpexpo : Last developments in pulp bleaching - Ozone bleaching Chemical modification of fibers

October 11, 2005

9 h 00: Key-note introduction, speaker to be announced

Session 1 : Ozone bleaching of chemical pulps

9 h 30: Why using ozone for the bleaching of chemical pulps. Tutorial.
Dominique Lachenal, EFPG

10 h 15: Applying ozone on high kappa pulps (kraft and sulfite) to improve the bleached pulp yield.
Christine Chirat, EFPG

10 h 45: **Coffee break**

11 h 15: Ozone as final bleaching stage. Basic aspects and process performance.
Guillaume Papon, EFPG

11 h 45: Effect of ozone on fiber morphology and papermaking properties,
Raphaël Passas and Christine Chirat, EFPG

12 h 15: **Lunch**

Session 2 : Improvement of the bleaching response of chemical pulps

13 h 45: Reasons for bleachability problems and ways to resolve them,
Dominique Lachenal, EFPG

14 h 15: Getting the best from chlorine dioxide bleaching :
▪ the hot D stage, *Christine Chirat, EFPG*
▪ chlorine dioxide splitting, *Dominique Lachenal, EFPG*

15 h 15: **Coffee break**

Session3 : Ozone in mechanical pulping

15 h 45: Why using ozone in mechanical pulping ? Tutorial.
Dominique Lachenal, EFPG

16 h 15: Saving energy by application of an ozone treatment in the mechanical pulping process.
Jean-Christophe Hostachy, Wedeco

20 h 00: **EFPG Dinner**

October 12, 2005

Session 4 : Fiber chemical modification

9 h 00: Surface modification of cellulose fibres : the state of the art,
Naceur Belgacem, EFPG

9 h 30: Effect of carboxyl groups on transformer board surface properties,
Audrey Bourgeois, EFPG

10 h 00: Different ways to create carboxyl groups on cellulose. Effect or paper properties,
G rard Mortha, EFPG

10 h 30: Yellowing problems due to the presence of created carbonyl and carboxyl groups on cellulosic fibres,
Christine Chirat, EFPG

11 h 00: **Coffee break**

Session 5 : Vegetal fillers to improve paper properties

11 h 30: Micronised bleached sugar beet fillers to improve the strength properties of paper,
G raldine Champon, Tembec Tarascon

12 h 00: Production of carbohydrate nanofillers (whiskers, microfibrillated cellulose, starch nanocrystals). Their potential interest.
Alain Dufresne, EFPG

12 h 30: **EFPG party on the occasion of its ISO 9001 certification**



The 4th EFPG Days 2005 Sessions Registration Form

**Please send this form to Christine Chirat, E-mail : efpgdays@efpg.inpg.fr
Fax : 33 4 76 82 69 33 - before September 16th, 2005.**

INFORMATION

Last Name :

First Name :

Job title :

Company :

Address :

City :ZIP :Country :

Telephone :Fax :

E-mail address :

REGISTRATION FEES (CHECK ONLY ONE)

- Individual participant 500 euros (598 euros, TTC for French companies)
- Multiple registrant 400 euros (478.4 euros TTC for French companies)
(more than one from the same company)
- University staff 200 euros (239.2 euros TTC for French Universities)

The fees include : lecture notes, coffee breaks, lunches and dinner.

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

Please photocopy this form as necessary for multiple registrants

- Contact :** Christine Chirat
E-mail : efpgdays@efpg.inpg.fr
- Location :** Ecole Française de Papeterie et des Industries Graphiques (EFPG)
461 rue de la Papeterie, University Campus
38402 Saint-Martin d'Hères, France
- Registration :** To be sent to the attention of Christine Chirat at the above coordinates (before September 16, 2005)
- Fee :** See registration form enclosed
- Hotels :** Please find below a selection of hotels. You are kindly asked to make your own reservation as soon as possible due to the IP venue at the same time. The prices are indicative.

**** Hotels, downtown Grenoble**

Hôtel des Alpes**

45 Avenue Félix-Viallet – 38000 Grenoble
Tel : 04 76 87 00 71 Fax : 04 76 47 21 25
Single 30 € - Double 45 €

Hôtel Gloria**

12 Rue Aristide-Bergès – 38000 Grenoble
Tel : 04 76 46 12 93 04 Fax : 76 87 14 93
e-mail : hotelgloria@wanadoo.fr
www.hotel-gloria-grenoble.com
Single 40 € - Double 45 €

Hôtel IBIS Grenoble Centre**

5 Rue Miribel – 38000 Grenoble
Tel : 04 76 47 48 49 Fax : 04 76 47 78 22
e-mail : accor@hotel.com
www.ibishotel.com
Single or double 73 €

HOTEL SUISSE ET BORDEAUX**

6 Place de la Gare – 38000 Grenoble
Tel : 04 76 47 55 87 Fax : 04 76 46 23 87
e-mail : info@hotel-sb-grenoble.com
www.hotel-sb-grenoble.com
Single 39 € - Double 45.60 €

***** Hotels, downtown Grenoble**

Hôtel ALPEXPO UGEREL***

1 Av. Innsbruck - 38100 Grenoble
Tel : 04 76 33 02 02 Fax : 04 76 33 34 44
Single 99 € - Double 105 €

Hôtel d'Angleterre Tulip Inn***

5 Place Victor-Hugo – 38000 Grenoble
Tel : 04 76 87 37 21 Fax : 04 76 50 94 10
e-mail : hotel-angleterre@hotel-angleterre.fr
www.hotel-angleterre.fr
Single 84 to 130 € - Double 130 €

NOVOTEL Grenoble Centre***

7 Place Robert-Schuman – 38000 Grenoble
Tel : 04 76 70 84 84 Fax : 04 76 70 24 93
e-mail : H1624@accor-hotels.com
www.novotel.com
Single 89 to 100 € - Double 95 o 106 €

More information about
Grenoble : <http://www.ville-grenoble.fr> or
www.grenoble-isere-tourisme.com