

# Grenoble Technical Conference on **Deinking of Digital Prints** November 8-9, 2011

Organized by  
Centre Technique du Papier & Grenoble INP-Pagora



Located at Centre Technique du Papier  
Amphithéâtre Pierre Cognard  
Domaine Universitaire - Grenoble - France

Conference supported by  
DPDA « Digital Printing Deinking Alliance » and  
INGEDE « International Association of the Deinking Industry »

# Grenoble Technical Conference on Deinking of Digital Prints November 8-9, 2011

Given the huge development of digital printing, papermakers have to develop new paper surfaces in order to improve printability, print quality but also deinkability / recyclability. Indeed, environmental concerns must be more and more considered when developing new printing techniques using new inks and new presses.

The scope of this conference is therefore to review latest progress in ink / paper interactions in the context of digital printing, with a focus on deinkability and deinking strategies.

**TECHNICAL PROGRAMME IN PROGRESS**

**DAY 1 | TUESDAY, NOVEMBER 8, 2011**

*8.30 – 9.15 Conference registration & Coffee*

*9.15 – 9.30 Welcoming*

## **MORNING SESSION**

**9.30 – 11.00 | Digital printing market & technology**

1/ Page volume growth and application shift in ultra-high volume continuous feed colour inkjet printing

**R. Schlözer** | InfoTrends

2/ Digital printing technology overview **G. Lane** | Hewlett Packard

3/ The environmental case for digital printing: Life cycle assessment studies of marketing collateral and paperback book ecosystems **N. Miller, T. Strecker, E. Chappell** | Hewlett Packard

*11.00 – 11.30 Coffee break*

**11.30 – 12.30 Deinking industry (market, volume, process), simulation and mechanisms**

4/ Deinking Industry in Europe – Recent Experience with digital prints **A. Fischer & A. Faul** | INGEDE

5/ Flotation mechanisms: review **D. Beneventi** | Grenoble INP-Pagora / CNRS

*12.30 – 14.00 Lunch at CTP*

## **AFTERNOON SESSION**

**14.00 – 15.30 Inkjet prints deinking (1)**

6/ Ink / paper interaction in inkjet printing **A. Blayo** | Grenoble INP-Pagora

7/ Deinking of ink jet prints: a review **G. Dorris** | FPIInnovation•

8/ DPDA Summary of inkjet print deinking evaluations **D. Hatfield** | Kodak

*15.30 – 16.00 Coffee break*

**16.00 – 17.00 Inkjet prints deinking (2)**

9/ First results for UPM / HP cooperation on inkjet deinking research: ink effect

**H. Ehrlich, M. Macias, P. Engert, G. Lane & N. Miller** | UPM / Hewlett Packard

10/ Effect of paper design on deinking of HP pigmented inkjet inks

**M. Macias, G. Wingkono, N. Miller & G. Lane** | Hewlett Packard

*Evening Dinner*

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DAY 2 | WEDNESDAY, NOVEMBER 9, 2011

## MORNING SESSION

### 9.00 – 10.30 Deinking chemistry

11/ Deinking of digital prints with near neutral HPES chemistry

**H. Ng, M. Bhattacharaya, L. Mittelstadt & W. Zhang** | Hewlett Packard

12/ Improved deinking of ink jet printed paper using DEKA **C. Basilio & S. Sheppard** | Thiele Kaolin

13/ Improvement of the deinkability of InkJet printings **Y. Ueda & H. Takahashi** | Kao Corp.

### 10.30 – 11.00 Coffee break

### 11.00 – 12.30 Deinking chemistry

14/ Possibilities of enzyme-aided deinking of inkjet-printed paper **K. Kemppainen & T. Hakala** | VTT

15/ Lab scale process investigation for the deinking of ink jet printed papers

**D. Glover, J. Tian & T. Nicholas** | Buckman & Eastman Kodak

16/ Deinking behaviour of recovered paper mixtures containing digital prints

**D. Voss & H. Putz** | PMV Darmstadt

### 12.30 – 14.00 Lunch at CTP

## AFTERNOON SESSION

### 14.00 – 15.30 Toner print deinking

17/ Toner paper interactions in electrophotographic printing **L. Leroy** | CTP

18/ Deinking of toner prints: a review **B. Fabry** | CTP

19/ Recent lab and pilot studies of the deinking of LEP prints

**M. Aronhime, Y. Rosen, J. Belson & N. Miller** | Hewlett Packard

### 15.30 – 16.00 Coffee break

### 16.00 – 17.00 Industrial experience

20/ Review of the impact of inkjet printed paper on the operation and final product of a North American deinking mill **G. Williams** | Infoprint

21/ Effect of process water contamination on flotation mechanisms **B. Carré** | CTP

## ORGANIZATION

### Scientific Committee

Dr Bruno Carré (Centre Technique du Papier Grenoble – France)

Dr Benjamin Fabry (Centre Technique du Papier Grenoble – France)

Dr Anne Blayo (Grenoble INP-Pagora – France)

Dr Davide Beneventi (Grenoble INP-Pagora – France)

Prof Naceur Belgacem (Grenoble INP-Pagora – France)

Dr Gilles Dorris (FPInnovations Montreal – Canada)

Dr Gérard Galland (Grenoble – France)

Dr Elisabeth Hanecker (PTS Munich – Germany)

Dr Bernard Pineaux (Grenoble INP-Pagora – France)

Dr Hans Putz (PMV Darmstadt – Germany)

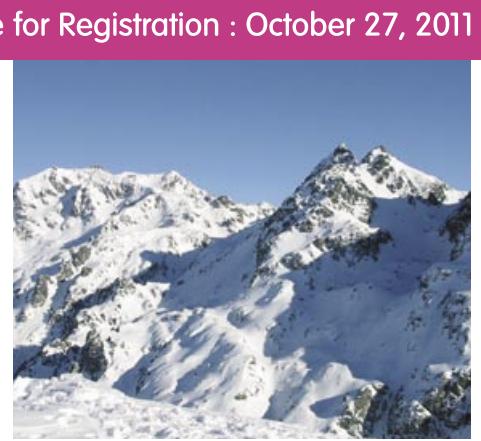
### Organizing Committee

Bruno Carré (Centre Technique du Papier)

Malou Caillat (Centre Technique du Papier)

Anne Blayo (Grenoble INP-Pagora)





## SYMPOSIUM VENUE

The First "Grenoble Technical Conference on DEINKING OF DIGITAL PRINTS" will be held at CTP - Amphithéâtre Pierre Cognard - Grenoble - France.

Grenoble is located in a wonderful tourist area with many ski fields in winter and different mountains activities in summer, as trekking, climbing, cycling and windsurf on the numerous mountain lakes. The Grenoble Valley is recognized as a dynamic town with sport practices but also high technological & scientist activities.

## WHOT SHOULD ATTEND ?

This symposium will be relevant for all involved in the DEINKING RECYCLING PRINTING of DIGITAL PRINTS. Included are: paper, printing press & ink manufacturers, research centers & suppliers, project process & product managers, R&D scientists and technical environmental scientists.

## ACCOMMODATION

Participants are responsible for organizing their own travel and accommodation. A limited number of rooms have been

reserved for them in some hotels in Grenoble with easy access to CTP and preferential reduced rates. Accommodation should be booked directly by delegates until dates indicated in the Hotel Form attached.

## VISA

Participants requiring visa should request an invitation letter from CTP at the time registering for the event, ensuring sufficient time is left for applications to be completed. Participants are then responsible for contacting the relevant/appropriate embassy themselves. CTP can do nothing further to assist in this process.

## CANCELLATION

Cancellations will be accepted and fees will be refunded only if made in writing and received ten days before the event. Bookings cannot be cancelled or fees refunded thereafter.

## FRIENDSHIP DINNER

In the frame of this symposium, CTP and Grenoble INP-Pagora will invite

all participants to attend the friendship dinner organized on Tuesday November 8 (without additional fees). Just necessary to inform us about your participation in the Registration form attached.

## WEB INFORMATION

Programme, hotel form, registration form, access.... are available on our websites [www.webCTP.com](http://www.webCTP.com) or on [www.pagora.grenoble-inp.fr](http://www.pagora.grenoble-inp.fr)

Additional information to reach CTP by Airports Access

- from Lyon Saint Exupéry Airport (1 hour shuttle) <http://www.lyonaeroports.co>
- from Geneva Airport (Switzerland) (2 hours shuttle) <http://www.gva.ch.fr>

## SYMPOSIUM FEES

The symposium fee must be paid to confirm registration. Fee include symposium attendance, lunches, coffee breaks, friendship dinner and proceedings. However, fees do not include participants travel and accommodation.

Registration fees: 700 € (vat included)

Payment available by bank transfer or credit card (except AMEX card)

Deadline for Registration : October 27, 2011

**For further information about the conference and organization contact: Malou CAILLAT**  
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