



Digital Round Table Attracts Many Attendees

Additional Working Group Installed

For the ninth time, the Round Table dealing with deinking of digital prints met in April - this time in Munich in connection to the PTS-CTP Deinking Symposium. This allowed the participants from the printer industry to achieve some deeper insight into current issues of the paper industry such as the problems in deinking flexo in the UK. There are many similarities between flexo inks and pigmented inkjet inks so the issues in removing them can be regarded as comparable.

Andreas Faul (INGEDE) presented the development of INGEDE Method 11 and the Deinkability Scorecard and explained the recent revision to operate the deinking test in the industrial pH range. Detlef Schulze-Hagenest (Kodak NexPress) gave an overview about the developments in digital printing. More and more small to medium print jobs are being done digitally rather than in offset – and more systems compete to replace traditional printing technology. Also in high volumes with comparably low quality (bank statements, billing), inkjet printers have increased their market share.

The history of the Round Table and its growth was summarised by Axel Fischer (INGEDE). Due to many first-time participants, he also gave a short introduction into paper recycling and the specific problems caused by waterbased inks. Gary Williams (Infoprint Solutions) then described the forming and the goals of the Digital Print Deinking Alliance (DPDA), an organisation formed by

HP, Infoprint, Kodak and Océ after the April 2008 Round Table to "investigate deinking concerns related to inkjet technology". Key points of the DPDA are whether any paper mill has any problems with inkjet yet and whether problems might actually arise, also whether INGEDE Method 11 is relevant for the evaluation of inkjet prints. Investigations performed by CTP for the DPDA confirmed that peroxide bleaching had little to no improvement, while hydrosulfite bleach increased pulp luminosity and brightness. DPDA's conclusion is that "some dyes are easily deinked using existing commercial mill conditions" while they would not pass the INGEDE Method 11 protocol. DPDA plans to "investigate additional commercial deinking process variables and degree of impact compared to lab tests".

Increasing particle size and increasing hydrophobicity of pigments enhance the flotation of inkjet inks. This is the conclusion of research presented by Nils Miller (HP). In their labs, they use a deinking test with a lower pH than INGEDE Method 11 and less shear to improve deinkability results.

Following the symposium, Nobushige Tanaka (KAO Chemicals) presented recent developments of an encapsulated pigment for waterbased inkjet inks that showed good deinkability in first tests. In order to separate more general presentations for a changing audience from continuous work with

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CALENDAR OF EVENTS

9–11 June 2010

**IMI – 3rd Digital Printing Presses
The next Era Conference**
Kissimmee, Florida, USA

29 Jun–1 Jul 2010

Zellcheming Expo 2010
Visit the INGEDE Booth 321
Wiesbaden, Germany

16–17 Sept 2010

**European Adhesives & Sealants
Conference 2010**
FEICA, Helsinki, Finland

18–21 Oct 2010

Research Forum on Recycling
Norfolk, Virginia, USA

27 Oct 2010

INGEDE Seminar
**“Rezyklierbarkeit von
Druckprodukten”**
Berlin, Germany

16–18 Nov 2010

European Paper Week
Brussels, Belgium

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frequent participants, a working group met the next day at Myllykoski's Lang Paper Mill in Ettringen, where a plant visit concluded the discussion. During that, Hans Putz (PMV) had presented studies about the repeatability of INGEDE Method 11 tests; and Andreas Faul presented a collection of representative process parameters for deinking processes which the DPDA members had asked for in order to better understand the conditions under which inkjet inks have to be removable.

Axel Fischer

Working Group Recovered Paper Quality meets in Italy

The working group Recovered Paper Quality was invited by BURGO Mantova (Italy) for its spring meeting on April 13-14, 2010.

As a starter for the meeting we had the great opportunity to visit a modern sort-

well as the exchange of experience in recovered paper quality and entry inspection at the members' mills.

Andreas Faul reported about the actual status of the revision of the recovered paper grade list. In many areas there is

being. At the autumn meeting we will get the final results.

For the year 2009 INGEDE did not get all feedbacks for the database yet. Therefore Andreas Faul reported about some necessary changes in the struc-



ing plant processing household collected material. GV Machero at Pedrengo near to Bergamo has an deinking output capacity of 6 t/h.

In the following we discussed several recovered paper quality related issues and visited Burgo's deinking plant.

On the agenda we have had amongst others the EN 643, the INGEDE Project 126 08 "Recovered Paper Quality", the INGEDE recovered paper database as

a common understanding between the three parties FEAD, ERPA and CEPI. However much work is to be done for the final agreement. Sabine Weinert from PMV reported about the actual status of the INGEDE project 126 08 "Recovered Paper Quality". Some trends can be observed but due to the fact that samples are missing and not all material is evaluated yet a final statement can not be given for the time

ture of the database and the questionnaire which was already sent out to the mills. The recovered paper quality situation seems to be stable. No major claims were brought forward.

The group will meet again on Oct 6-7, 2010, probably in Hamburg.

Manfred Geistbeck



Press Information

ZELLCHEMING 2010 – Attractive expo and an extensive lectures and supporting programme

Darmstadt/Frankfurt, 10 May, 2010 – About 243 exhibitors from 17 countries will present their products and services at ZELLCHEMING General Meeting and Expo taking place from 29 June to 1 July, 2010 in the Rhein-Main-Halls in Wiesbaden. A comprehensive lectures and supporting programme underlines the status as Europe's most important annual event of the pulp and paper industry.

The lectures programme of the 105th ZELLCHEMING General Meeting comprises the following topics:

- Competitive edge by energy savings
 - Environment, energy efficiency and efficient use of resources in paper making and paper converting
 - Special Papers
 - Cellulose-Symposium
 - Energy Efficient Paper Making
 - Nano-Fibers and Nano-Cellulose
 - Biorefinery of Paper Making Residues
- as well as a series of exhibitors' presentations for technique and management.

More information about the programme is available on www.zellcheming.com.

The ZELLCHEMING Summer Evening traditionally takes place in the Kurhaus Wiesbaden at the second day of the event. Tickets could be obtained at ZELLCHEMING or at the registration counter on-site.

Wiesbaden is a centrally located health-resort with good traffic connections by plane, train and car. The German Railways offers special prices to Wiesbaden from local stations for exhibitors and visitors of ZELLCHEMING 2010 (for more information, please have a look on www.zellcheming-expo.de/reiseplanung/anreise).

The Wiesbaden Congress & Tourist Service provides comprehensive advice about the wide range of hotel in Wiesbaden (contact and information about the online booking system on www.zellcheming-expo.de/en/traveling/hotels).

More information for the ZELLCHEMING General Meeting and Expo are available on www.zellcheming.com and www.zellcheming-expo.de.

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