

INGEDE Working Group Paper for Recycling meet in Dordrecht



Deinking grade at Peute Recycling, source: Encarna Bernal

This spring the Working Group Paper for Recycling held its meeting in Dordrecht, The Netherlands on 26-27 March.

The discussion started with the exchange of experience on entry inspection and quality issues. Most of the mills reported increasing problems due to adhesives and varnished printing products. More and more non-woven material is appearing. In a long-term trend the fibre length is decreasing. For the annual questionnaire some last details were clarified before it was sent out on 1st April 2014. The new EN 643 is already adopted by some of the mills and others will follow soon. A new working group on European standardisation level was installed to describe methods how to measure the limits set in the grade list.

INGEDE will give a paper on the International Deinking Symposium in Munich in May 2014. It deals with the drivers on quality of paper for recycling. The working group impulsively discussed that topic and produced new ideas.

A sub-working group got started to compare anonymously some key figures of sorting lines operated by some

of the INGEDE members. After the meeting the members got the possibility to visit the facilities of PEUTE Recycling in Dordrecht. In a huge area a lot of paper grades are handled and deinking grades are produced out of household collected material on a sorting line. It will be modernized in the near future to fulfil Peute's requirements.

The group will meet again in Glückstadt (DE) in autumn on 11-12 November 2014, hosted by Steinbeis Papier.

Manfred Geistbeck

CALENDAR OF EVENTS

13-14 May 2014

PTS-CTP Deinking Symposium
Munich, Germany

20-21 May 2014

INGEDE Working Group
Deinking Process
Kriebstein, Germany

2 June 2014

Technical Committee Deinking
Stuttgart, Germany

24-26 Jun 2014

Zellcheming Expo
Frankfurt a.M./Germany

9 Jul 2014

EcoPaperLoop Seminar
Sobron, Hungary

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INGEDE in Kürze INGEDE at a glance INGEDE en bref

For INGEDE members a short description of the INGEDE work and benefits of an INGEDE membership is now available in three languages German, English and French at the INGEDE office (office@ingede.org).



Environmentally Friendly Premiere before IPEX:

First Web-fed Aqueous Inkjet is “Good Deinkable” without Pre-treatment

Rather than shipping them around the world, more and more especially foreign newspapers are printed decentralised with dye-based aqueous inkjet – starting on islands, now also in Rome and Berlin. These newspapers are not suitable for the production of new bright, graphic paper: In the deinking process*, the soluble colours bleed and stain other paper fibres. Just before the IPEX 2014 fair in London, for the first time a web-fed aqueous inkjet printing system has delivered good deinkable printed products. Test prints from KBA’s high-performant RotaJET on uncoated newsprint paper have shown good deinkability in lab tests arranged by INGEDE.

Four years ago, Xerox’s solid ink technology has been presented at IPEX which is currently the only one already in the market that without applying costly pre-coating materials to the paper receives “good” deinkability according to the ERPC Deinkability Scores**. The highest possible rating “good deinkable” is also achieved by prints from Fujifilm’s Jet Press 720, a B2 sheet-fed digital inkjet press, using coated paper with an inline pre-treatment. This printer had also been presented at the last IPEX.

The RotaJET inkjet technology works with a polymer pigment ink, where the polymer stops the jettable fine pigments from bleeding into the fibres, collects them, and thus improves both brilliance and removability. An optional “Control Fluid” improves the deinkability even further.

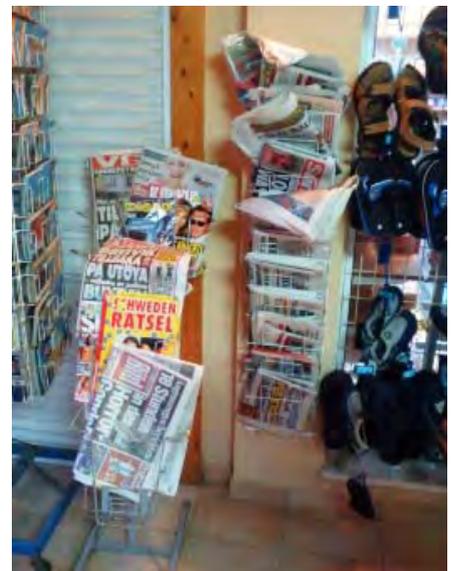
Constant Improvement, Result of a Consistent Dialogue

Already before drupa 2008 INGEDE had pointed at problems in recycling the prevalent inkjet prints. While dry toner prints are generally good deinkable, with inkjet prints this worked only on a few special papers. “A comparably small amount of prints with water soluble dyes or pigments can make a whole load of paper useless for the production of new graphic paper”, explains Axel Fischer, chemist and INGEDE’s expert for recycling digital prints. “The recent developments are a nice acknowledgement for the consistent dialogue of the paper industry with the digital printer manufacturers which we lead for a couple of years now. They also show that it is actually possible to design inkjet prints in a way that they work well in the existing system of paper recycling. For the future, we can expect more positive development in this sector.”

With all three systems, good deinkability goes hand in hand with better image quality – these inks tend to less bleeding and less strike through.

Axel Fischer

See also INGEDE Press Release 1/2014 of 24 March 2014 at www.ingede.org



Undeinkable inkjet news at a hotel newsstand in Cyprus (Photo: INGEDE/Fischer)



Save the date:

EcoPaperLoop Seminar on 9 July 2014 in Sopron, Hungary



for everybody in the paper chain: recyclers, printers, publishers or agencies as well as packaging converters! The seminar will take place at the University of West Hungary, Faculty of Wood Sciences, Paper Research Institute, (UWH/FWS/PRI). The program starts at 9.00 h and ends at 17.00 h. Presentations dealing with paper collection in different aspects like requirements, collection systems, quality of paper for recycling and other issues.

City center of Sopron