

10th Research Forum on Recycling



Audience at TAPPI PEERS meeting from 16 to 18 Sep 2013 in Green Bay, WI

Every three years, the annual TAPPI PEERS conference is the host for the Research Forum on Recycling. Andreas Faul, Dr. Hans-Joachim Putz and Thomas Schrinner presented INGEDE's topics.



Mahendra Doshi and Daniel R. Haynes

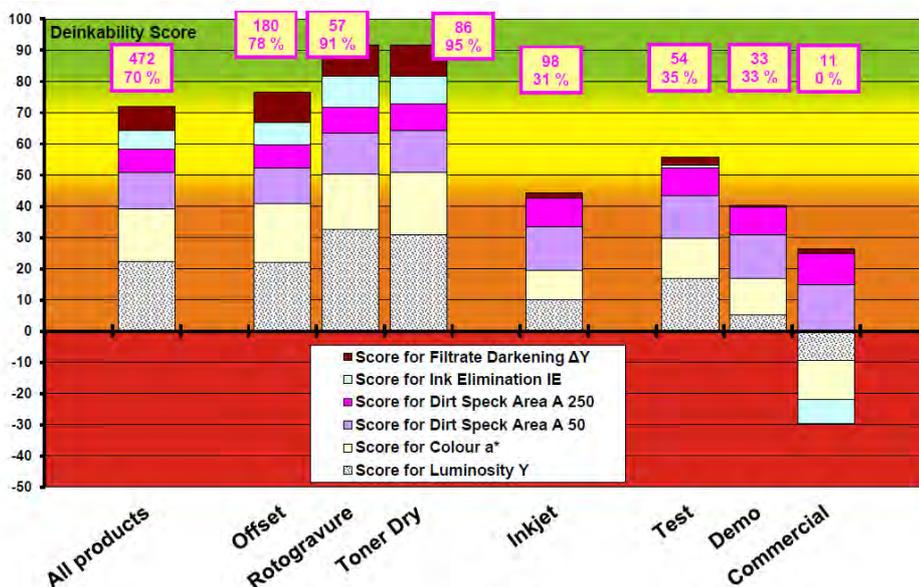
The thematic field was water quality (Putz; INGEDE Project 132 10), adsorption deinking (Schrinner; INGEDE Project 135 11 and consecutive projects) and digital print deinkability (Faul). For the first time INGEDE showed deinking test results distinguished by test, demo and field products. In inkjet there is a significant decline in deinkability over these three groups which is partly caused by the

product mix but mainly due to the fact that the print concepts with better results are either not yet on the market or the market does not accept them due to higher costs.

Moreover, even the best group - the test prints - performs far worse than the best performers rotogravure and dry toner.

This requires continuing work in R&D as well as in communication.

Andreas Faul



CALENDAR OF EVENTS

2 Oct 2013

European Paper Recycling Award
Brussels, Belgium

7-9 Oct 2013

Ifra Expo
Berlin, Germany

9 Oct 2013

Technical Committee Deinking
Berlin, Germany

29 Oct 2013

EcoPaperLoop Seminar
Warsaw, Poland

4-5 Nov 2013

INGEDE working group
Deinking Process
Laakirchen, Austria

5-6 Nov 2013

INGEDE Working Group
Paper for Recycling
Laakirchen, Austria

26-28 Nov 2013

European Paper Week
Brussels, Belgium

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in Chemnitz

Printing Future Days: Digital Newspapers and Printed Electronics – Young Print & Media Scientists meet in Chemnitz



Audience at the Printing Future Days

For the fifth time, the bi-annual PRINTNG FUTURE DAYS (PFD) conference took place at Chemnitz Technical University, this year (once again after 2007) co-located with the 40th conference of iarigai, the International Association of Research Organizations for the Information, Media and Graphic Arts Industries. Together both meetings offered a unique platform for scientific exchange and networking.

The Printing Future Days conference is a place for junior scientists and doctoral students dealing with current research topics concerning printing technology and printed functionality. Both events share the theme of "Digitalization of Print – Exchanging Ideas Across Generations". For three days junior scientists from around the world, including France, The Netherlands, USA, Australia, and Russia, gathered in Chemnitz to present their research findings and network with major players from the printing and printed electronics industry.

This meeting also represents a unique chance to confront young research scientists in the field of media with the idea of recycling and recyclability of printed products. *Matthias Hausmann* of CEWE Photobooks (Germany) talked about sustainability in digital printing, especially in photobooks, addressing the problems in deinking HP Indigo prints which still dominate this field. For the EcoPaperLoop project, *Axel Fischer* introduced the partners and their activities. He explained the paper

recycling process and its challenges in terms of collection systems and deinkability of different printing technologies. He also introduced INGEDE and its activities in contributing to more awareness about these challenges, for example originating from water soluble inkjet inks.



Axel Fischer presenting the EcoPaperLoop project

"Electronic equals Sustainable is a myth!" was one of the key messages presented by *Beatrice Klose* of Intergraf (Brussels), pointing at the vast amounts of energy that the Google's data centers and other invisible but still climate effective components of the "cloud" consume – storing and transporting electronic newspapers, books and marketing. She quoted a 2012 PrintWeek survey where 76 per cent of the respondents agreed that

"print is as effective or more effective than the internet for marketing".

The official opening ceremony of Printing Future Days (PFD) conference was held in the New Lecture Building of Technische Universität Chemnitz. The welcome speech of Prof. Dr. Reinhard Baumann (TU Chemnitz, Fraunhofer ENAS) was followed by talks from Koenig & Bauer AG, one of the main sponsors, and Technologie Centrum Chemnitz GmbH, as well as guided tours that allowed a close look into the laboratories and facilities of the University campus and the Smart Systems Campus.

At the end of the morning sessions the Interactive Poster Session was opened on the first floor of the New Lecture Building. Over the conference days the attendees had the chance to nominate the best poster for an award. One poster (but not the winner) by Khalil Traïkia and Chloé Gillant of Grenoble INP (France) discussed the question: "Are digital processes suitable for newspaper printing?" Comparing press examples like Impika iPrint for inkjet and KBA Commander CL for offset, one conclusion about the limits for digital printing was the "Impossibility to use the flotation" for deinking. The poster also points at the fact that a huge increase of printed newspaper distribution in Asia and in the Middle East compensates the decrease in Europe and in Latin America, with Asia today representing one third of the world distribution.

Axel Fischer