

## Tappi/Paptac Research Forum on Recycling



The harbour city Norfolk in Virginia at the mouth of the Chesapeake Bay is the major basis of the U.S. Navy. At the 9<sup>th</sup> Research Forum on Recycling which took place there together with the TAPPI PEERS Conference in October, civil subjects dominated.

Andreas Faul attended the event and gave a presentation on „The challenge to deink inkjet prints together with recovered paper from households“. Johann Oberndorfer from Myllykoski acted as co-author for this paper. For the second and the third day of the event the organiser scheduled so called “Hot Topic Breakfasts” on various subjects from 06:45 h to 08:30 h. Deinking of inkjet was on the list on both days. In the sessions and at the breakfasts the discussion with

deinkers, chemical suppliers and researchers clearly showed that also in North America today’s inkjet printing is regarded as a threat for deinking.

Further activities with involvement of INGEDE were a paper of PMV about the removability of adhesive

applications (INGEDE Project 129 09) and the draft Scorecard as well as a presentation of Professor Harald Grossmann about deinking with ultrasound (INGEDE Project 119 08). All in all the Recycling Forum consisted of 29 lectures. INGEDE’s awareness level was quite impressing, since 14 out of those contained references to INGEDE. The references mainly related to INGEDE’s most important method – the deinkability test according to INGEDE Method 11, but also to INGEDE’s Public Relations work, the test files for digital printers and INGEDE’s work on the Deinkability Scores.

As a tribute to the economic situation of the paper industry, there were only about 50 participants in the recycling



sessions, a significant drop in the number compared to previous Forums. Together with the PEERS Conference,

## CALENDAR OF EVENTS

9 Feb 2011  
**INGEDE General Assembly**  
hbw Munich, Germany

10 Feb 2011  
**INGEDE Symposium**  
hbw Munich, Germany

1–2 March 2011  
**INGEDE Working Group  
“DIP Quality Management”**  
IP Kwidzyn, Poland

17 March 2011  
**INGEDE Project meeting 132 10**  
“Deinkability of recovered paper depending on water circuit quality”  
PTS Heidenau, Germany

5–7 April 2011  
**INGEDE Working Group  
“Recovered Paper Quality”**  
Stora Enso Langerbrugge, Belgium

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TAPPI had about 350 registrations for the event. Nevertheless, attending was – apart from the technical information spread and received – a good opportunity to find new and renew old contacts to potential members and also to potential representatives in North America.

Andreas Faul



## Individualised Newspaper "niiu": Dry Toner Supersedes Inkjet

"Perfect HD print quality" from a Xeikon printer since November 1st replaces the former "good enough" but a little washy dye-based aqueous inkjet at the world's first individualised daily newspaper. "niiu" from Berlin after its first year claims to set new standards ("now High Definition") in the field of daily newspapers. In "close collaboration with our readers" the paper has been upgraded, combining sharp letters with "high resolution, brilliant graphics" finding its way also towards business customers. niiu now also targets hotels to offer some individual comfort for their guests or companies to furnish events with personalised news for their customers.



Axel Fischer

## The Indigo Incident: Source Has Been Identified, Paper Chain To Be Informed

Liquid toner prints shall not get into recovered paper stream for deinking any more. This is the consequence learnt from an expensive, involuntary deinking trial in a German paper mill. See the report "Accidental Deinking Trial: Liquid Toner Prints Cause Significant Damage in German Paper Mill" (INGEDE News October 2010). The damage for the paper mill – only for the paper dumped, not including standstill or others – has been more than 100,000 Euro. In the meantime, the pathway of the prints has been identified. Experts from HP have visited the mill and also identified the prints.

### Liquid Toner Prints for Board Production Only

Discussions within INGEDE did not lead to a feasible and safe solution to keep these prints in the graphic recycling chain and use it for less demanding paper qualities, e.g. standard news-

print. Therefore the recommendation to printers is to collect liquid toner prints separately and direct them towards corrugated board production only. Dirt specks also have to be avoided in tissue mills. INGEDE and its members will now advise recovered paper merchants, to keep liquid toner overprint away from other graphic papers that might go towards any deinking process. This pathway is already established for UV overprint as many UV cured inks also lead to a high number of dirt specks in the deinking process. INGEDE also talks to printers' associations to inform their members. A good opportunity for this was the attendance of Andreas Faul at the environmental working group of the German Association for digital printing "digicom" in late October.

The problems with liquid toner prints will not affect INGEDE's cooperation with the DPDA and other digital printer

manufacturers about the deinkability of inkjet inks. On the contrary, a more intense cooperation also on a scientific basis is planned to avoid similar problems with waterbased inkjet prints.

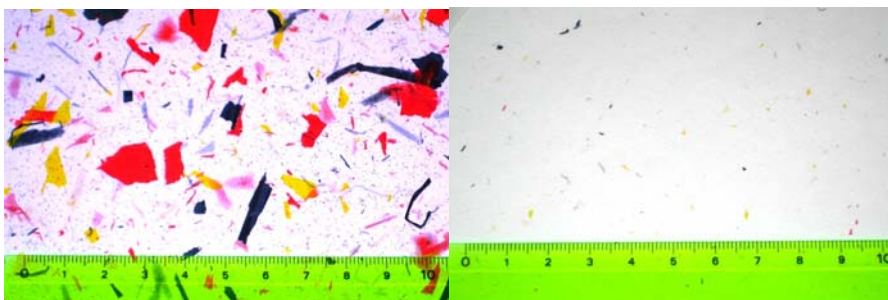
Andreas Faul, Axel Fischer

### Welcome Anne-Kathrin Kuna



Starting in September 2010, Anne-Kathrin Kuna will take a supporting role in the team of PTC around

Andreas Faul. Anne-Kathrin graduated in process engineering at the Technische Universität Dresden, in the field of paper technology. She gained practical experienced at LEIPA Schwedt and VISY Pulp & Paper, Melbourne and at PTS in Heidenau. In the future she will be responsible for the new research project "Hydrophobic impurities removal with oil-extraction" which is conducted in cooperation with PMV, TU Darmstadt. Working full time at Paper Technology Consulting, she will be also involved in projects regarding INGEDE matters. This will be for example editorial work at the INGEDE methods.



Liquid toner prints in the lab – before and after two flotation and one dispersion steps