Update on INGEDE’s activities

Dr Ulrich Höke
Andreas Faul, Axel Fischer, Marion Klabunde

INGEDE’s Major Topics

• **Recovered paper collection**
  • No commingled collection
  • Separate graphic paper collection wherever feasible
  • Securing quantity and quality of the resource

• **Recyclability**
  • Deinkability (flexo, inkjet, liquid toner, UV)
  • Removability of adhesives
  • Priority in INGEDE’s research project funding
Who is INGEDE?

INGEDE is the organisation of the deinking mills.

INGEDE was founded in 1989 by 12 companies.

Currently 34 paper mills are members of INGEDE, who utilised about 9,5 mio. metric tons of paper for recycling in 2011.

Cartiere Burgo Mantova
Hainsberg Papier
Holmen Paper AB Braviken Fuenlabrada (Madrid)
International Paper Kwidzyn
Kübler & Niethammer
LEIPA Georg Leinfelder Schwedt
Lenzing Papier
Norske Skog Group Bruck Parenco Skogn
Packages Ltd.
Perlen Papier
SCA Graphic Laakirchen

SCA Hygiene Mainz-Kostheim Ortmann
Steinbeis Papier
Stora Enso Group Eilenburg Hyte Langerbrugge Maxau
UPM Group Augsburg Chapelle Darblay Ettlingen Hürth Kaipola Plattling Schongau Schwedt Shotton Steyerpermühl
Utzenstorf Papier Van Houtum WEPA Arnsberg-Müschede

INGEDE Structure

INGEDE Members – 34 Paper Mills

INGEDE Board

- Stefan Endras
  - EMA Contacts
  - CEMI Contacts
- Peter Engert
  - Research
- Anne-Katrin Klar
  - WC Key Dates Management
- Álvaro Sánchez
  - Southern Europe to be confirmed

Public Relations

- Axel Fischer

Managing Director

- Andreas Faul

Project Engineer

- Anne-Katrin Klar

Assurances

- Elke Bergh
  - Marion Knabe
  - Ina Winter

INGEDE Office

- Markus Geistbeek
  - WC Recycled Paper Quality
- Johann Oberdorfer
  - Digital Printing
- Andreas Spielberg
  - Centre for Biopolymer Paper Chain
European Recovered Paper Council

Digital Print Deinking

Conference Presentations

INGEDE Symposium 2012

External Relations – Highlights in 2011

European Recovered Paper Council

- INGEDE has the chair of the ERPC for 2011 and 2012
- Scorecard on removability of adhesive applications was adopted in spring 2011
- Deinkability Scorecard in effect since 2008
- 3rd European Paper Recycling Award
External Relations – Highlights in 2011

Digital Prints

- Cooperation with DPDA (Digital Print Deinking Alliance: Hewlett Packard, Kodak, Océ, Ricoh InfoPrint Solutions – formerly IBM printing)
- Cooperation agreement signed in Feb 2011
- Formation of the DPDA INGEDE Technical Committee
- Joint project about deinking of inkjet started: 24 tests will be carried out with four commercial inks on six commercial papers

Conference Presentations 2011

- 16 presentations at conferences
  - ACS, American Chemical Society National Meeting at Anaheim, CA (US)
  - NIP27 – 27th International Congress on Digital Printing Technologies in Minneapolis, MN (US)
  - Ink Day Siegwerk – Deinking demonstration at customer event in Siegburg (Germany)
Conference Presentations 2011 (1)

Feb 2011
Umweltquête 2011, Vienna (AT)
„Beim Design eines Produkttes auch an das Recycling denken”
Axel Fischer
Photoindustrie-Verband, Technik und Umwelt, Essen (DE)
„Sind Digitaldrucke deinkbar?”
Axel Fischer

Mar 2011
ACS, American Chemical Society National Meeting, Anaheim, CA (US)
“Necessity of recycling benign paper products to ensure the most important European fibre resource for the paper industry; Recovered paper”
Samuel Schabel, Hans-Joachim Putz, Andreas Faul
“Simulating a deinking plant in laboratory scale: Requirements and relevance”
Andreas Faul, Axel Fischer
“Experiences on the deinkability of print products with special consideration of digital prints”
Hans-Joachim Putz, Samuel Schabel

May 2011
PTS Fachseminar Sticky und Altpapier, Dresden (DE)
„Neuerungen bei der Bewertung der Abtrennbarkeit von Klebstoffanwendungen aus Altpapiersuspensionen”
Anne-Kathrin Kuna, Andreas Faul
CTP – Advanced Training course on “Deinking and Recycling”, Grenoble (FR)
“Development of Composition and Quality of Recovered Paper in Germany and the EU”
Hans-Joachim Putz, Christian Ewald, Samuel Schabel

Conference Presentations 2011 (2)

July 2011
APV – Österreichische Papierfachtagung, Vienna (AT)
„Neue Erkenntnisse und Bewertungsmethoden zur Rezyklierbarkeit von grafischen Papieren”
Josef Augusta
VAPA & Millvision – Dutch and Belgian Technologiekring for the paper and board industry, Apeldoorn (NL)
“Deinking issues with digital prints”
Andreas Faul

September 2011
European Adhesives & Sealants Conference 2011, Valencia (ES)
“Recyclability of Adhesives Applications in Graphic Paper Products and Packaging Material”
Hans-Joachim Putz, Andreas Faul

October 2011
NIP27 – 27th International Congress on Digital Printing Technologies, Minneapolis (US)
“Recent developments in the Deinking of Inkjet and Liquid Toner”
Axel Fischer
GesPaRec – Workshop Qualitätsanforderungen an Altpapier für Deinking, Nürburg und Mayen (DE)
„Spezifische Qualitätsanforderungen von Verwendem grafischer Altpapiere“
Andreas Faul
Conference Presentations 2011 (3)

November 2011
TU Chemnitz – Printing Future Days 2011, Chemnitz (DE)
“Why are some digital prints an obstacle for deinking”
Andreas Faul

CTP – Deinking of Digital Prints, Grenoble (FR)
“Deinking Industry in Europe – Recent Experience with Digital Prints”
Axel Fischer

CEPI – European Paper Week, Brussels (BE)
European Declaration on Paper Recycling
Ulrich Höke

December 2011
Centre of Paper Quality, Lucca (IT)
“Recyclability of packaging & products made of cellulose”
Graziano Elegir

INGLEDE Symposium 2012

Zellcheming Expo 2011
Booth 321

INGLEDE Symposium 2012
Country Representatives

- **Objectives**: More communication to and from the paper chain in the different countries
- **Country Representatives** are mainly volunteers from INGEDE member companies
  - Last meeting on 10 Feb 2011
  - Next meeting on 9 Feb 2012
- **Main activities in 2011**:
  - Application for the EcoPaperLoop Project (Graziano Elegir)
  - Presentation at Centre of Paper Quality in Lucca (Graziano Elegir)
  - Italian Flexo Round Table (Graziano Elegir)
  - Member acquisition (Barry Read, Graziano Elegir)
  - Presentation at APV Graz (Josef Augusta)

Further important external activities

- **EN 643** *(European list of standard grades of paper and board for recycling)*
  - In discussion in the CEPI Recovered Paper Quality Management Issue Group
  - Working Group of CEN established

- Certificates on deinkability
  - In effect since 2009
  - In 2011 INGEDE issued 6 certificates
  - Required for Austrian Ecolabel UZ 16
External and internal activities 2011

• INGEDE …
  • had the initiative for 6 workshops and round tables
  • gave 12 presentations at conferences and seminars

• The INGEDE Office …
  • prepared or contributed to 23 further presentations
  • was involved in 2 technical publication with full text
  • made 2 visits to members and 4 to potential members
  • participated in 27 technical meetings of the paper chain – 25 physical meetings and many telephone conferences
  • visited 4 exhibitions and further conferences
  • attended at 11 INGEDE project and 4 INGEDE WG meetings
  • participated in 11 non-INGEDE research project meetings

• INGEDE Public Relations …

INGEDE Symposium 2012

INGEDE Public Relations

• Presentations at international conferences
  • Deinkability of digital prints
  • IMI, NIP27, FOGRA, Umweltenquete Wien, CTP
INGEDE Public Relations

- **Press Release**
  DPDA–INGEDE Letter of Intent: Collaboration on Deinkability of Inkjet Prints

- **INGEDE Website**
  Pageviews going up continuously

- **Digital Round Table** in Perlen w/ Hunkeler Days in Luzern

- **Deinkability tests** with digital printer manufacturers and printers

- **Requests** from students, members of the paper chain; foreign scientists

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INGEDE Public Relations

- **Joint Press Release**
  DPDA–INGEDE Letter of Intent: Collaboration on Deinkability of Inkjet Prints

Lucerne, Switzerland – On February 14, 2011, executives from the DPDA (Digital Press Dating Alliance) and INGEDE (International Association of the Deinking Industry) together signed a Letter of Intent for collaboration to investigate the deinking of inkjet prints. The primary objective of this collaboration is to identify new solutions suitable for combined reprocessed waste paper streams with analogue and digital prints. The target is to enable inkjet manufacturers as well as deinking mills to better anticipate their commercial and environmental requirements as inkjet print volumes become more significant.
Rethinking Deinking - Climb in Digital Printing Puts Pressure on Paper Recycling

Paper manufacturers have long dealt with the challenges of paper recycling. But in recent years, they have faced a new challenge: how to recycle paper more effectively. Changes in the way paper is printed have added to this challenge.

INGEDE Symposium 2012

INGEDE Public Relations

INGEDE Symposium 2012

Deinking technology is seeing an increase in interest due to the digital printing industry. As digital printing becomes more popular, the demand for recycled paper has also increased. This has led to a rise in the use of deinking technologies, which help to remove unneeded ink from recycled paper.

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Deinking technology involves the use of specific chemicals and processes to remove ink from recycled paper. This makes recycled paper suitable for use in a variety of applications, including printing and packaging.

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Deinking technology is also becoming more cost-effective, making it a more viable option for paper manufacturers. In addition, the demand for sustainable and environmentally friendly products is growing, which is driving the development of new deinking technologies.

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Deinking technology has also been shown to improve the quality of recycled paper, making it more suitable for high-end applications. This has helped to increase the demand for recycled paper, further driving the development of deinking technologies.

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Deinking technology is a complex and often expensive process. However, the benefits of using recycled paper are significant, including reduced environmental impact, cost savings, and improved product quality.

INGEDE Symposium 2012

Deinking technology is an important tool in the fight against waste and pollution. By improving the efficiency and effectiveness of deinking technologies, we can help to create a more sustainable and environmentally friendly world.
INGEDE Member Activities 2011

20th INGEDE Symposium in Munich (Feb 2011)

• Working Group “DIP Quality Management” (Anne-Katrin Klar)
  two meetings
  1–2 March in Kwidzyn (International Paper)
  27–28 Sept in Norrköping (Noss AB and Holmen Paper Braviken)

• Working Group “Recovered Paper Quality” (Manfred Geistbeck)
  two meetings
  5–6 Apr in Langerbrugge (Stora Enso)
  28–29 Nov in Vienna and Ortmann (Bunzi & Biach and SCA Ortmann)
Thank you for your attention!