

23rd INGEDE Symposium
12 February 2014 in Munich



INGEDE

International
Association of the Deinking Industry

Update on INGEDE's activities

Dr Ulrich Höke

Andreas Faul, Axel Fischer, Marion Klabunde

INGEDE's Major Topics

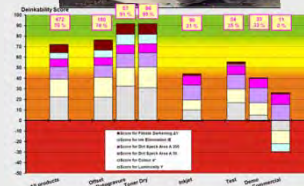
- **Collection of paper for recycling**

- No commingled collection
- Separate graphic paper collection wherever feasible
- Securing quantity and quality



- **Recyclability**

- Deinkability (flexo, inkjet, liquid toner, UV)
- Removability of adhesive applications



- **Raising awareness in the paper value chain**

Who is INGEDE?

INGEDE is the organisation of the deinking mills.

INGEDE was founded in 1989 by 12 companies.

Currently **33 paper mills** are members of INGEDE,

who utilised nearly **9 million tons** of paper for recycling in 2013.



33 INGEDE Members

Cartiere Burgo
Mantova (deinking plant shut down in Feb 2013)

Holmen Paper AB
Fuenlabrada (Madrid)

International Paper
Kwidzyn

Kübler & Niethammer

LEIPA Georg Leinfelder
Schwedt

Lenzing Papier

Lucart
Porcari (Lucca)

Norske Skog
Bruck

Packages Ltd.
(deinking plant shut down in 2013)

Perlen Papier

SCA Graphic Laakirchen

SCA Hygiene
Mainz-Kostheim
Ortmann

Schönfelder Papierfabrik

Steinbeis Papier

Stora Enso Group
Eilenburg
Hylte
Langerbrugge
Maxau

UPM Group
Augsburg
Chapelle Darblay
Ettringen
Hürth
Kaipola
Plattling
Schongau
Schwedt
Shotton
Steyrermühl

Utzenstorf Papier

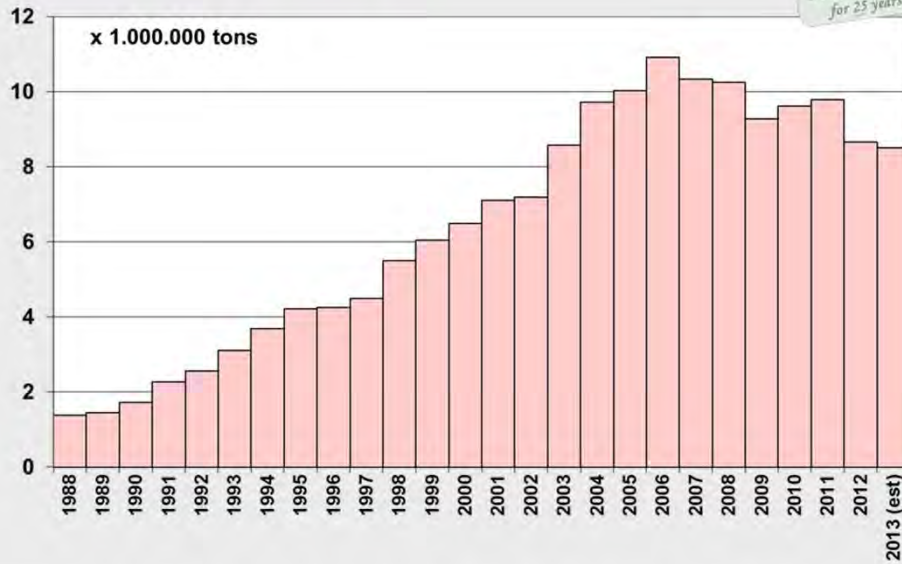
Van Houtum

Papier- und Kartonfabrik Varel

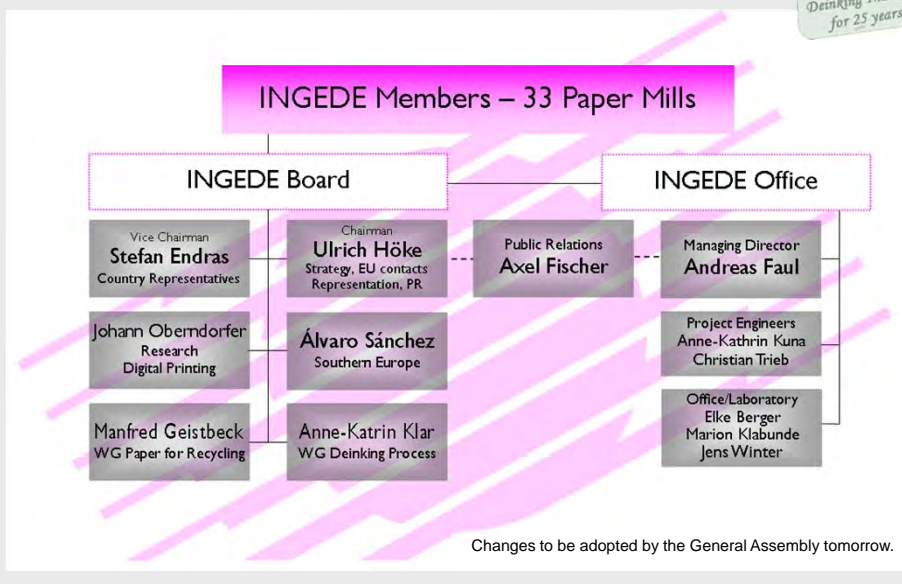
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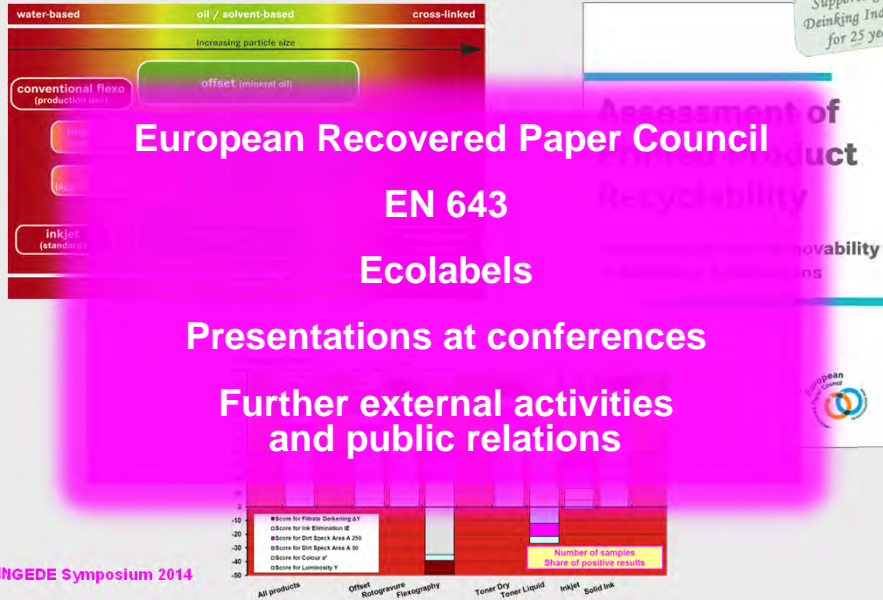
Recovered Paper Utilisation by INGEDE Members 1988–2013



INGEDE Structure 2013



External Relations 2013

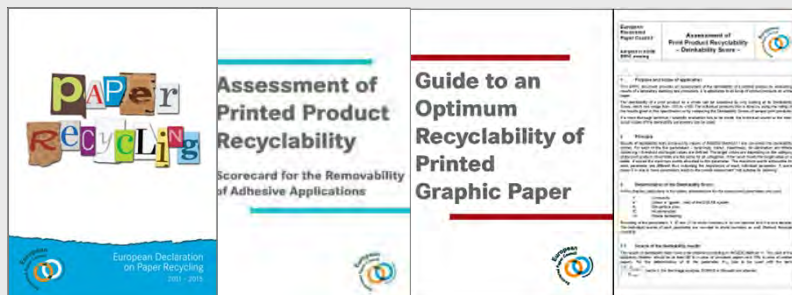


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European Recovered Paper Council



- Scorecard for the removability of adhesive applications adopted in spring 2011
- Deinkability Scorecard in effect since 2008, revised in 2009
- New European Declaration on Paper Recycling 2011 to 2015 launched in Sept 2011



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European Paper Recycling Award 2013



Speakers at the award ceremony:
MEP Gerben-Jan Gerbrandy
Beatrice Klose, INTERGRAF & ERPC Chair
Jori Ringman-Beck, CEPI & ERPC Secretariat



Voith Paper received the award in the technology category for their low-energy flotation (INGEDE members supported this entry)



Proud winner in the category Information and Education:
City of Alcorcón for "EcoBins in schools"
Runner-up:
INGEDE member International Paper Kwidzyn for "Seventh Heaven for Newspapers"



Photos: CEPI

Revision of EN 643



- **EN 643 – the “European list of standard grades of paper and board for recycling” was adopted in Nov 2013**
- **The official documents of CEN and the National standardisation bodies should be available in Feb 2014**
- **CEPI has issued a guidance document**
- **It is available in English, French and Portuguese**
- **A German version will be prepared by VDP / GesPaRec after publication of EN 643**



Revision of EN 643 – Relevant changes (1)

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- The standard has a better structure as well as more and clearer definitions
- All grades have maximum levels of non-paper components and total unwanted material
- A list of prohibited material (zero tolerance) was added
- There are specific requirements for grades intended for deinking
 - Deinkability according to ERPC Scorecard
 - Age of newspapers

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Revision of EN 643 – Relevant changes (2)

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- **Newspapers and magazines**
 - Magazines got a new subgrade (1.06.02) “with product samples”
 - 1.11.00 has to contain at least 80% ONP and OMG, but minimum 30% ONP and 40% OMG
 - ONP/OMG grades 1.08 and 1.10 were removed
- **Office papers**
 - 2.05.00 got a detailed description and a higher quality subgrade
 - 2.06.00 got a better description than before and a higher quality subgrade as well
 - 2.09 (NCR) was moved to group 5

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Revision of EN 643 – Relevant changes (3)

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- Paper for recycling, usually originating from printers and converters
 - **Multigrade (2.13.00)**, max. 10% wood containing papers
 - 2.14.00 and 2.14.01 – new grades on log end tissue
 - Woodfree grades 3.03.01 and 3.05.01 are new, higher quality subgrades
 - Woodfree computer print-out (3.07) removed
 - **Multi printing**: New, lower quality subgrade 3.10.01 added
 - Printed multiply board received also a lower quality subgrade (3.11.01)

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Revision of EN 643 – Special grades

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- **Group 5 – special grades**
 - 2 grades before sorting (as collected)
 - 22 grades (in the old EN 643: 5 grades) which usually require a special process in order to be recycled
 - Liquid packaging
 - Label stock, dry and wet labels
 - Release liners
 - Wet-strength papers
 - ...

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EN 643 – Summary and Outlook



- **Data from INGEDE members** enabled us to efficiently represent the interests of the deinking industry
- **The CEN working group continues with an updated scope**
 - Monitor the experiences with the new EN 643 in order to prepare the next revision
 - Define methodologies to check the quality of paper for recycling
 - Priority items are:
 - Sampling
 - Moisture control
 - **Next meeting will be in March 2014**

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Ecolabels for printed products



- These ecolabels **request deinkability and removability of adhesive applications** based on INGEDE Methods and ERPC Scorecards
- **Requests for certificates increased significantly**
- INGEDE is in the process to **establish cooperation** with the research institutes on testing and data handling
- UBA in Germany **revised** the existing **Blue Angels** for paper and their products
- They announced a **new Blue Angel** for **printed paper products**



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Conference Presentations 2013 (1)



March 2013

Recycling und Rohstoffkonferenz, Berlin (DE)

"Forderungen der Papierfabriken an die Qualität des Altpapiers für die Herstellung grafischer Papiere - Qualität des gesammelten Altpapiers und Aufbereitung -"

Ulrich Höke

Donau Druckforum, Vienna (AT)

"Das neue europäische Umweltzeichen für Druck und seine Anforderungen an das Recycling"

Axel Fischer

April 2013

Internationaler Altpapierstag, Düsseldorf (DE)

"Das Ausschreibungsverhalten der Kommunen"

Ulrich Höke

PTS Altpapier-Seminar, Dresden (DE)

"Die neue EN 643 – detailliertere Qualitätsanforderungen an Altpapier"

Andreas Faul



May 2013

Viscom Digitaldruckforum, Bern (CH)

"Digitaldruck – Anforderungen an recyclinggerechte Druckprodukte"

Stefan Endras

Conference Presentations 2013 (2)



June 2013

Berufsbildungswerk Waiblingen (DE)

"Papierrecycling: Druckprodukte und ihre Anforderungen"

Axel Fischer

BPIF – Umweltschutzgruppe der British Printing Industries Federation, London (GB)

"Paper Recycling and Deinkability"

Axel Fischer

September 2013

Printing Future Days 2013, Chemnitz (DE)

"Enhancing the quality of Paper for Recycling"

Axel Fischer

TAPPI Research Forum on Recycling, Green Bay, WI (US)

"Deinkability update – Drupa 2012 and beyond"

Andreas Faul

NIP29 – International Congress on Digital Printing Technologies, Seattle, WA (US)

Tutorial on Paper Recycling, Presentation on "EU Ecolabel for Printed Products and Deinkability"

Axel Fischer



INGEDE Public Relations



- **Presentations** at international conferences:

- Deinkability, especially of digital prints
- Printing Future Days, NIP29, ERA



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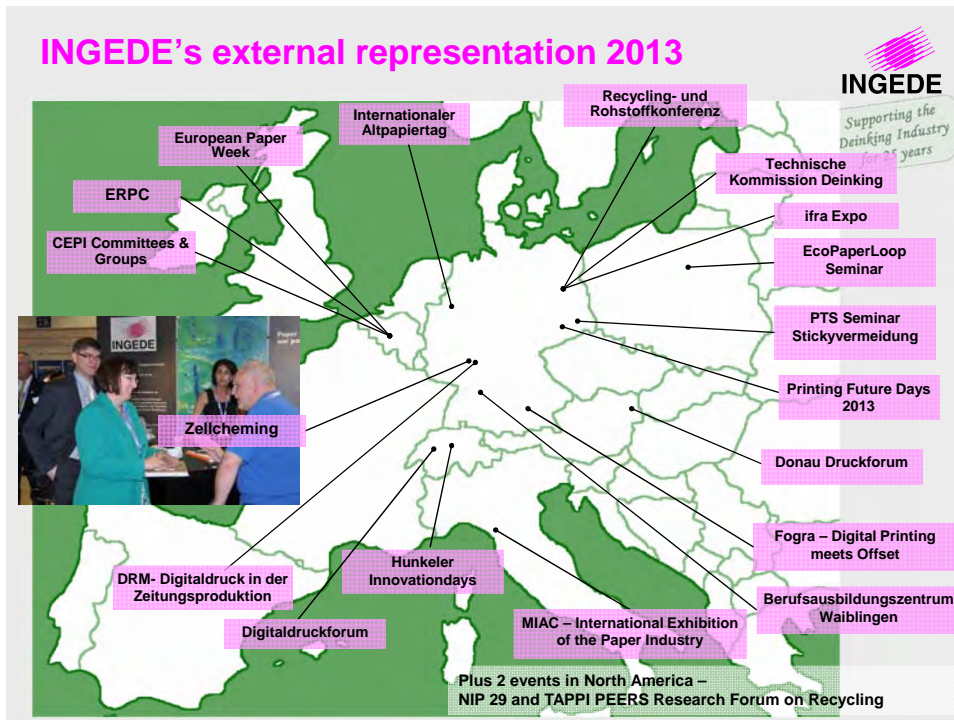
- **INGEDE Website**
Updated design, high response
- **Video shooting** incoming inspection at UPM's Ettringen mill
- **Deinkability tests** with digital printer manufacturers and printers
- **Cooperation** to improve EU Ecolabel testing coordination and UL Environmental Standard (USA)
- **Press support**
- ...



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INGEDE's external representation 2013



Project work

- **INGEDE Projects** – afternoon session today
- **Third-party funded projects** – more details tomorrow
- **EcoPaperLoop** – a Central European project working hand in hand with INGEDE's external activities:

- Collection of paper for recycling (afternoon session)
- Recyclability of paper based products
- Life cycle assessment
- Policy roadmap

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EcoPaperLoop – Major activities

- **Raising awareness** on paper recycling topics – by presentations, seminars, stakeholder dialogues, newsletters, video clips, exhibition booths
- **Method development** plus internal and external training of **recyclability testing**, **life cycle analysis guidelines**
- Surveys and recommendation on **collection strategies** and on related **policy and regulations**
- **Duration:** Sep 2012 to Dec 2014
- **Project partners:**
Germany (3), Hungary (1), Italy (3), Poland (1), Slovenia (2)

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EcoPaperLoop – Seminar Warsaw (Oct 2013)

Lectures and speakers

Overview

(Graziano Elegir)

The collection of paper for recycling

(Harald Grossmann)

Graphic paper recycling

(Ulrich Höke)

Packaging paper recycling

(Saskia Runte, Andreas Faul)

Life cycle assessment

(Grzegorz "Greg" Canczewski)

Policy in connection with paper for recycling

(Jori Ringman)

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EcoPaperLoop – Seminar Ljubljana (Jan 2014)

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- **Lectures and speakers**

Introduction (Graziano Elegir)

EU and national legislation (Antonija Božič Cerar)

Recyclability evaluation (Hans Putz)

Ecolabels (Andreas Faul)

Statistics and terminology (Ilpo Ervasti)

- **World Café topics and hosts** (brainstorming)

Recyclability (G. Elegir, S. König)

Collection strategies (H. Grossmann, K. Možina)

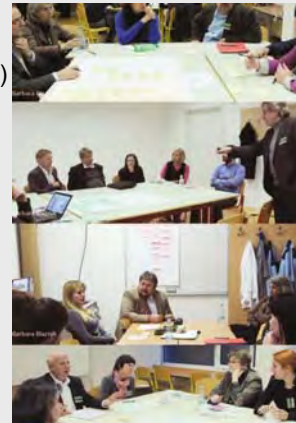
Public awareness (A. Faul, R. Urbas)

Legislation (G. Golob, A. Gross)

- **Training school on recyclability testing**

Welcome (M. Mešl) & Theory (H. Putz)

Laboratory demonstration (J. Zule, M. Kenda)



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EcoPaperLoop – Upcoming major events

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- **Presentation and booth at “Altpapiertag”**

(Düsseldorf, 02 & 03 April 2014)

- **Public workshop and training school on collection**

(Sopron, July 2014)

- **Public seminar**

(Milan, September 2014)

- **Public seminar**

(Munich, October 2014)

- **Final conference**

(Poland, December 2014)



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INGEDE's involvement in events 2013 – INGEDE Office and Public Relations



- **Conferences, symposia, trade shows**
 - Attendance at **20** events, **14** presentations (2 of them from Board Members)
- **Technical Committees of the paper value chain**
 - **17** physical attendances and **5** telephone conferences
- **Project work**
 - Attendance at **5** physical and **2** telephone INGEDE project meetings
 - **8** meetings of third-party funded projects and **1** telephone conference
 - **4** physical events of **EcoPaperLoop** and **2** telephone conferences
- **INGEDE member activities**
 - **2** visits at potential members and **1** member visit
 - **6** physical working group (and related) meetings plus **1** telephone conference
 - INGEDE Symposium and Member Symposium

INGEDE Member Activities 2013

22nd INGEDE Symposium in Munich (Feb 2013)



INGEDE Member Activities 2013/2014



- **Working group Paper for Recycling**
(Manfred Geistbeck)

16–17 Apr 2013 in Berlin
05–06 Nov 2013 in Laakirchen – Heinzl Paper
26–27 Mar 2014 in Dordrecht



- **Working group Deinking Process**
(Anne-Katrin Klar)

21–22 May 2013 in Eilenburg – Stora Enso Sachsen
04–05 Nov 2013 in Laakirchen – Heinzl Paper
20–21 May 2014 in Kriebstein – Kübler & Niethammer



INGEDE Methods



- **INGEDE Method 1 will be improved**; for this purpose INGEDE Project 140 13 PTS Filter Paper was launched in March 2013
- The **revised INGEDE Method 8** was launched in July 2013
- **Revision of INGEDE Method 5** (laboratory washing) is on the to-do list
- **INGEDE Method 15** is waiting for results of INGEDE Project 130 09 PTS
- INGEDE is actively working on the new **INGEDE Method 18** for the **identification of printing technologies in entry inspection of paper for recycling**. Once finished, it will be **available only for members**

Major achievements



- **Recyclability criteria in ecolabels for printed products**
 - Recognition by competent bodies that these are necessary criteria
 - Raising awareness at printers, converters and their suppliers (supports own external activities)
- **Revision of EN 643 is beneficial for deinkers**
- **Increased awareness and consideration of deinkability in the paper value chain (by own external activities)**

INGEDE International Association of the Deinking Industry



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