

21st INGEDE Symposium
8 February 2012 in Munich



INGEDE

International
Association of the Deinking Industry

Activity Report
WG DIP Quality Management (DIP QM)

Anne-Katrin Klar

INGEDE Member Activities
Working Group DIP Quality Management (DIP QM)
– Purpose



- **Member activity for 8 years** (established 2004)
- **Reasonable complement** to
WG “Recovered Paper Quality”
- **Covers the whole deinking process** and
related subjects
- **Process benchmarking**
- **Podium for projects proposals**

INGEDE Working Group DIP Quality Management – Scope



- **Experience exchange** for members (process, chemistry, process parameters, monitor news and experiences in technology)
- **“Learning” by visiting** hosting companies
- **Being a forum** in order to improve the research work of INGEDE (project preselection, development of ideas)
- **Contribute to lobbying activities** by providing and discussing technical facts that INGEDE uses in their communication in the paper value chain by developing a technical/technological database
- **S.W.O.T. analysis** of the deinking industry
- **Review of test methods**

INGEDE Working Group DIP Quality Management – History



- frequency: twice a year (spring and autumn)
- 26.–27.10.2004 Utzenstorf Utzenstorf Papier
- 07.–08.04.2005 Dalum Dalum Papier
- 03.–04.11.2005 Mantova Cartiere Burgo
- 23.–24.06.2006 Schwedt Leinfelder
- 21.–22.11.2006 Madrid Holmen Paper
- 23.–24.05.2007 Kemsley M-real
- 06.–07.11.2007 Ravensburg Voith
- 17.–18.11.2008 Graz Andritz
- 08.–09.06.2009 Bietigheim-Bissingen INGEDE Office
- 02.–03.11.2009 Vitry-le-François Kadant
- 10.–11.05.2010 Renkum Norske Skog Parenco
- 02.–03.11.2010 Mainz-Kostheim SCA Hygiene Products
- 01.–02.03.2011 Kwidzyn International Paper
- 27.–28.09.2011 Norrköping NOSS & Holmen Paper
- 18.–19.04.2012 Perlen Perlen Papier AG

INGEDE WG DIP Quality Management WG members 2011



Austria:	Norske Skog Bruck
Germany:	UPM Ettringen SCA Hygiene Products Kostheim Steinbeis Papier Glückstadt Stora Enso Sachsen WEPA Papierfabrik UPM Research UPM Schongau INGEDE Office
Italy:	Cartiere Burgo S.p.A.
Netherland:	Norske Skog Parenco
Spain:	Holmen Paper Madrid
Switzerland:	Perlen Papier AG Utzenstorf Papier

INGEDE Working Group DIP Quality Management Kwidzyn (International Paper) – Topics



- **Database**
 - evaluation of reportings and data quality
- **S.W.O.T. analysis**
 - Revision e.g. "end of waste" will finalize,
 - INGEDE US activities
- **Mill presentation**
 - International Paper Kwidzyn
- **INGEDE Lobby work**
 - Scorecard adhesive applications / ERPC activity
- **Members corner:**
 - stickies caused by varnishes from magazine,
 - deinking chemistry



INGEDE Working Group DIP Quality Management Norrköping (NOSS / Holmen Paper) – Topics



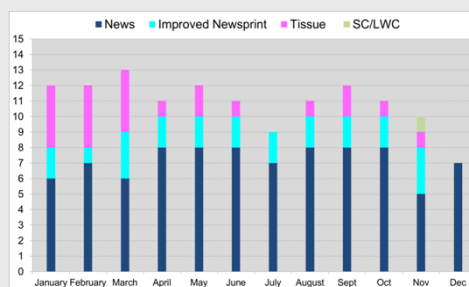
- Visit at NOSS AB
 - Company presentation
 - Focus on fractionating cleaners and seasonal variations of fibre characteristics
 - Tour of Norrköping facilities
- Holmen Paper Braviken
 - Company presentation
 - Mill tour
- WG meeting
 - Need for microsticky method
 - Deposits which cause hickeys
 - European activities of INGEDE



INGEDE Working Group DIP Quality Management – Data base



- **Restart** in 1/2011
- **Data evaluation and analysis** in order to create better usability for all recovered paper grade and product groups by follow up of technological and technical development
- **Anonymous monthly survey** of process parameters
- **Participation per DIP line** (2010: 2–10 lines, 2011: **7–13 lines** in average 10), majority in newsprint follow by tissue and improved newsprint
- **Report** in INGEDE News



INGEDE Working Group DIP Quality Management Data base (revised 11/2011)



Month: Feb
 Year: 2012
 Alias of deinking line: XYZ paper
 Region: Central Europe
 Category of recovered paper: ONP/OMG
 ONP content: %
 OMG content: %
 Total unwanted materials: %
 Product: SC/LWC

	Consistency	Brightness*	Luminosity	L/a/b
Pulping consistency	%			
Inlet prescreening (after HD cleaner) - RP quality	%	%		
Inlet main flotation (without dilution)	%	%		Y
Accept main flotation	%	%		Y
Inlet washing	%			
Inlet disperser	%			
Inlet post flotation	%	%		Y
Accept post flotation	%	%		Y
Final DIP (in machine chest)	%	%		Y
Loop 1	%			
Loop 2	%			
Clear filtrate PM	%			

*Brightness with UV; Light source: D65/10° or C/2° (please click one ☺)

	Ash	Macrostickies	Dirt Speck Area
Inlet prescreening (after HD cleaner) - RP quality		mm ² /kg	mm ² /m ²
Inlet washing			
Accept post flotation			
Final pulp		mm ² /kg	mm ² /m ²
End product (paper)			mm ² /m ²

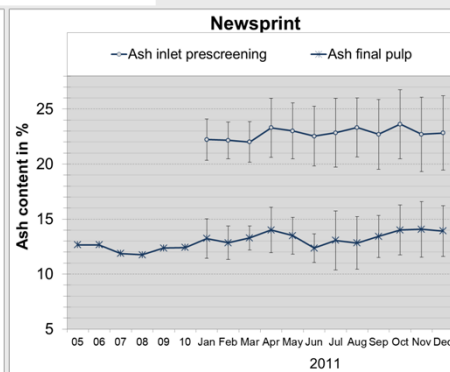
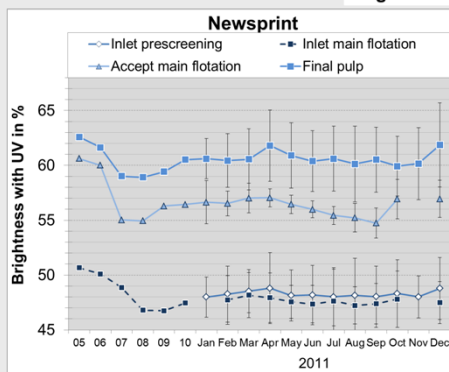
	pH	Temp.	Specific Energy
Outlet drum/pulper		°C	
Inlet main flotation		°C	
Disperser		°C	kWh/t
Inlet post flotation		°C	

	COD	Water treatment
Loop 1	ppm	DAF: <input type="radio"/> yes or <input type="radio"/> no <input type="radio"/> don't know
Loop 2	ppm	DAF: <input type="radio"/> yes or <input type="radio"/> no <input type="radio"/> don't know
Clear filtrate PM	ppm	

INGEDE Working Group DIP Quality Management reported in INGEDE News 01/2012



Brightness and ash content



**INGEDE Working Group
DIP Quality Management
Activity Report**



Thank you for your attention!