



Participating organisation

Germany



**Fachgebiet Papierfabrikation und
Mechanische Verfahrenstechnik**

Technische Universität Darmstadt

Alexanderstr. 8

D-64283 Darmstadt

**Chair of Paper Technology and
Mechanical Process Engineering**

Darmstadt University of Technology

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D-64283 Darmstadt

pmv@papier.tu-darmstadt.de

*Please insert correct
WG (in foil master)*



COST E-48 1st meeting WG X – Shiphol 30.06.2005



Organisation's details

Germany



Chair of Paper Technology, TU Darmstadt, Germany

Services/Products:	Education, research
Total number of employees:	35
Employees in E48 related areas:	10
Number of students:	30
Research focus:	<ul style="list-style-type: none">• Paper recycling with stock preparation processes• Paper physics with structural analysis of paper• Optical analysis and evaluation of paper and printing• Chemical substances in paper and treatment of water and rejects
Ownership structure:	State owned



E48 representative's presentation (I)

Germany



Jörg Wagner

Dipl.-Ing.

Darmstadt University of Technology

Chair of Paper Technology and
Mechanical Process Engineering

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Academic background:

- Mechanical engineer / paper engineer (TU Darmstadt, 2003)

Areas of expertise:

- Paper recycling

Function in COST E48:

Member of WG

“Altpapieraufbereitungs-
technologie”



E48 representative's presentation (II)

Germany



Jörg Wagner

Most relevant publications in the field of E48 (max. 5) :

J. Wagner; H.-J. Putz; S. Schabel:

Development of a european deinkability test method and results of selected types of printed products

Research Forum on Recycling, Quebec, 2004, S.115-119



Own expectations in E48

Germany



- **Feedback for my running research project
“Separation of fillers and fines”**
- **Contacts with colleagues of other countries**
- **Interesting discussions, which strengthen my background
knowledge**



Own contributions to E48

Germany



Finished or current projects in the area of E48:

- **Project 1:** **INGEDE 85 02:**
European Deinkability Test Method

- **Project 2 :** **INFOR 65 R and 79 R:**
Potential for substitution of recovered paper grades
Optimized use of recovered paper by automatic sorting

- **Project 3 :** **INFOR 75:**
Evaluation of the technological potential and the cost effectiveness of an selective filler separation within recovered paper stock preparation for packaging paper grades

Projects submitted or planned during the duration of E48

- **AiF:** Separation of fillers and fines in recovered paper suspensions

Specific tools (equipment/software) relevant for E48 objectives

- **Thermogravimetry (TGA)**



Brief description of own finished or ongoing research projects in the area

Germany



Project 1: INGEDE 85 02

- *Harmonization of INGEDE Test Method 11 “Assessment of the Recyclability of Printed Paper Products – Deinkability Test –”*
- *Repeatability, reproducibility, simplification, acceptance*
- *Comparison of different “house methods”, Round Robin Tests*
- *Satisfying reproducibility, simplified specimen preparation*

Project 2: INFOR 65 R and 79 R

- *Influence of use of automatic recovered paper sorting on quality of recovered paper grades unknown*
- *Needs of recovered paper utilization, potential of different automatic paper sorting systems, effect on quality*
- *Tests in sorting plants*



Brief description of own finished or ongoing research projects in the area

Germany



Project 3: INFOR 75

- *Rising organic content in recovered paper, disposal problems for sludges, physical properties of packaging papers*
- *Selectivity, position for application*
- *Analysis of samples from different positions and different lines, sedimentation*



Organisation of E48 events

Germany



My organisation has the personal and logistic facilities to organise major E48 events and would particularly be prepared to host (please tick box)

specific (seperate) MC or WG meetings

parallel or consecutive meetings of both MC and WGs

a workshop (up to 50 participants)

an international conference (more than 50 participants)



External contributions to E48

Germany



I believe that the following external organisations or experts could make valuable contributions to E48 events:

Name	Organisation	Expertise
P. Engstrand	Holmen	Multiple recycling in pilot scale
I. Eriksson	SCA, R&D	Multiple recycling in laboratory scale
D. Solberg	SCA, R&D Tissue	Separation of fillers and fines
J. Forsström	Tetra Pack R&D AB	Ink Detachment
N.N.
N.N.



Expectations and offers concerning STSMs^{Germany}



My organisation is prepared to host young academics from foreign organisations in the frame of STSMs. We could offer colaboration in

- **sticky analysis**
- **mechanical process engineering**
- **paper testing in general**

My organisation is interested in sending young academics to foreign research organisations in the frame of STSMs.

We would particularly be interested in learning more about

- **organic fillers**