



Participating organisation

Italy



**STAZIONE SPERIMENTALE
CARTA CARTONI E PASTE PER
CARTA- SS CCP**

**RESEARCH INSTITUTE for
PAPER BOARDS and PULPS**

**P.ZZA LEONARDO DA VINCI 16 –
20133 MILANO ITALY**

gcapretti@sperimentalecarta.it



Organisation's details

Italy



STAZIONE SPERIMENTALE CARTA CARTONI E PASTE PER CARTA

Services/Products:

Research, Training and Education,

Total number of employees:

33

Employees in E48 related areas:

3

Number of students:

2

Research focus:

- **Packaging products**
- **Food contact paper**
- **Upgrade of recovered paper quality**
- **Treatment technologies**
- **Quality control**

Ownership structure:

Public Commercial Org.

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



E48 representative's presentation (I)

Italy



Giorgio Capretti

Dr

PIRELLA GÖTTSCHE LOWE ITALY



Academic background:

- Degree in Industrial Chemistry

Areas of expertise:

- Paper manufacturing

- Pulp production

- Paper recycling



Function in COST E48:

Member of the MC

Member of the WG



E48 representative's presentation (II)

Italy



Giorgio Capretti

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

D. Capitani, M.C. Emanuele, J. Bella, A.L. Segre, D. Attanasio, B. Focher, and G. Capretti, 1999, “¹H NMR relaxation study of cellulose and water interaction in paper”, Tappi J. 87 (9): 117-124.

D. Attanasio, D. Capitani, G. Capretti, B. Focher, A.L. Segre; 1996; “Origine and nature of paramagnetic impurities in modern paper”, Extended Abstracts of the Fourth European Workshop on Lignocellulosics and Pulp, Stresa 8-11 September; 32-37.

D. Capitani, M.C. Emanuele, A.L. Segre, C. Fanelli, A.A. Fabbri, D. Attanasio, B. Focher and G. Capretti; 1998; "Early detection of enzymatic attack on paper by NMR Relaxometry, EPR spectroscopy and X-Ray powder spectra”, Nordic Pulp and Paper Res. J. 13, 2, 95-100.



Own expectations in E48

Italy



- **Establishing cooperation in the field of paper recycling.**
- **Finding strategies to improve the recycled pulp quality.**
- **To improve the knowledge in paper recycling.**
- **Extending the utilisation of recycled paper.**



Own contributions to E48

Italy



Finished or current projects in the area of E48:

- **Project 1: Sustainpack. Innovation and Sustainable Development in the Fibre Based Packaging Value Chain. (IP-6°FP)**

**WP5.3 Material characterisation and testing.
Recyclability and biodegradability of innovative materials.**

- **Project 2 : Neutral enzymatic deinking of recovered office paper.**



Italy



Projects submitted or planned during the duration of E48

- *“Development of analytical methods and tools for the evaluation of recycled fibre content in paper products, in support of the strategic evolution of the European paper value chain”* submitted for Collective Research Project- May 2005 SS CCP is coordinator.
- *“Forecasting recyclability: effect of scale factor”* submitted for Infrastructure Initiative Projects (JRA2) March 2005. SS CCP is partner in cooperation with PMV, PTS and CTP



Italy



Project 1: Sustainpack. Innovation and Sustainable Development in the Fibre Based Packaging Value Chain

(WP5.3 Material characterisation and testing. Recyclability and biodegradability of innovative materials.)

- *Background: New materials for packaging applications are getting available by using nanotechnology and fibre modification*
- *Objectives: Testing of recyclability and biodegradability of innovative materials.*
- *Means: Lab scale*
- *Results: The project started in June 2004. At the moment some promising composite materials have been tested for biodegradability and food contact. In next months the recyclability of innovative cushioning materials will be tested.*



Italy



Project 2: Neutral enzymatic deinking of recovered office paper

- **Background:** *Toners are more difficult to deink by conventional flotation technology.*
- **Objectives:** *Increase ink fragmentation and detachment using enzymes under neutral conditions to facilitate the flotation process.*
- **Means:** *lab and pilot scale experiments*

Results:

- **Reduction of dirt specks in comparison to conventional alkaline process.**
- **Reduction of surfactants use in the neutral process**
- **More biodegradable effluents**
- **Reduction of pulping time**



Organisation of E48 events

Italy



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

Italy



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

Name	Organisation	Expertise
N.N.	CEPI	EU P&P industry's view
N.N.	ASSOCARTA	Link with Paper industry
N.N.
N.N.
N.N.
N.N.



Expectations and offers concerning STSMs ^{Italy}



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

- **Biotechnology**
- **Lab. scale papermaking**
- **Paper recycling**
- **Pulp refining**

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

- **Deinking**
- **Secondary fiber characterisation**
- **Fiber cleaning and screening**