



Fibre Research Consultants Ltd

UK



FRC Ltd

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UK

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UK

State of UK Industry



- **Many mill closures**
- **High energy costs**
 - **Doubling of gas price**
 - **Increase at end of 2007 (carbon tax)**
- **No new major projects**
- **No fundamental research**
- **Little applied research -WRAP**



Organisation's details

UK



[FRC Ltd]

Services/Products:	2
Total number of employees:	2
Employees in E48 related areas:	1
Number of students:	0
Research focus:	<ul style="list-style-type: none">• Biogas generation• Tissue production• Liner board•
Ownership structure:	Public limited company



E48 representative's presentation (I)

UK



[Roland McKinney]

[Mr]

[19 Woodlands Road, Little Bookham, Surrey, KT23 4HG]

[100646.3221 @compuserve.com]

Academic background:

MBA Business Administration

M. Sc Public Health Engineering

B.Sc Biochemistry & Microbiology

Areas of expertise:

Mill operations, recycling in tissue, board and newsprint

Waste water treatment

Project development and planning

Function in COST E48:

.....MC

.....WG1



E48 representative's presentation (II)

UK



Roland McKinney

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

Technology of Paper Recycling
(Ed and contributor)
published by Chapman & Hall
1996

Several articles in TAPPI, PTI, PPI



COST E48

UK



Roland McKinney

- **Production experience with Kimberly Clark**
- **Research experience with Pira**
- **Consultant and engineering experience**



Own expectations in COST E48

UK



- **Become current with international research**
- **Formal discussion forums**
- **Develop informal contacts**
- **Assist in dissemination within UK industry**
 - **Whatever survives**
- **Become current with research focus of EU**



Own contributions to E48

UK



Finished or current projects in the area of E48:

- Project 1: Various projects on stickies
- Project 2 : Improving tissue quality from recycled fibres
- Project 3 : Integrated water management in testliner production

Projects submitted or planned during the duration of E48

- Biogas generation from sludge
- Hydrocarbon production from sludge and other wastes

Specific tools (equipment/software) relevant for E48 objectives

- Pilot plant in USA – Thermoelectron Corp
- Project finance



UK

Limits to Recycling



Already Reached in Tissue

- **High cost of residue disposal**
- **Higher energy cost**
- **Properties such as softness, bulk, visual**

Result is falling utilisation rate



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

UK



Project 1: Energy from sludge

- *Developed in USA for pulp mills – black liquor*
- *Objectives – fuel production*
- *Means*
- *Results 2 small installations in pulp mills in N America*

Project 2: [Title]

- *Background*
- *Objectives*
- *Means*
- *Results (so far)*



Organisation of E48 events

UK



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

UK



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

Name	Organisation	Expertise
N.N.
N.N.
N.N.
N.N.
N.N.
N.N.



Expectations and offers concerning STSMs

UK



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

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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

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