



## Participating organisation

Greece

DUTH/FMENR

Democritus University of Thrace  
Department of Forestry and Management of the Environment  
and Natural Resources

Laboratory of Wood and Fibre Science  
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## Organisation's details

Greece

DUTH/FMENR

### Democritus University of Thrace

**Services/Products:**

**Fibre raw materials testing/sourcing,  
quality control, education**

**Total number of employees:**

**20**

**Employees in E48 related areas:**

**5**

**Number of students:**

**35**

**Research focus:**

- **Fibre analysis**
- **Fibre anatomy and microscopy**
- **Market trends and analysis**
- **Consumer's behavior**

**Ownership structure:**

**State**



## **E48 representative's presentation (I)**

**Greece**

**DUTH/FMENR**

**Stergios Adamopoulos  
Dr., Assistant Professor**

**Democritus University of Thrace  
Department of Forestry and Management of the  
Environment and Natural Resources  
Laboratory of Wood and Fibre Science  
Pantazidou 193, 68200 Orestiada, GREECE  
sadamop@fmenr.duth.gr**



### **Academic background:**

**PhD in Wood Science, Aristotle University, Thessaloniki, Greece , 2001  
Bsc in Forestry, Aristotle University, Thessaloniki, Greece , 1995**

### **Areas of expertise:**

**Anatomy/properties of wood/paper products  
Fibre analysis  
Recycled materials sourcing**

### **Function in COST E48:**

**WP1  
WP3**



## **E48 representative's presentation (II)**

**Greece**

**DUTH/FMENR**

### **Stergios Adamopoulos**

**Most relevant publications in the field of E48:**

- 1. Quantification of softwood, hardwood and nonwood fibres in packaging grade papers, TAPPI JOURNAL 5(3), 2006**
- 2. Qualitative and quantitative fibre analysis in recycled raw materials for packaging. Forest Products Journal 56(2): 58-60, 2006**
- 3. Identification of fibre components in packaging grade papers. IAWA J. 27(3), 2006**
- 4. Characterization of packaging grade papers from recycled raw materials through the study of fibre morphology and composition. In Proceedings of the 9th International Conference on Environmental Science and Technology, September 1-3, Rhodes island, Greece. Vol. A, pp. 18-25 (2006)**



## Own expectations in E48

Greece

DUTH/FMENR

- Explore the potential quality distribution of fibres from different sources for packaging manufacturing in Europe
- Acquire methodology/knowledge needed to increase the use of recycled fibres
- Enhance manufacturing of paper grades of consistent and acceptable quality from increased use of recycled materials
- Survey consumer's attitude towards recycling and products from recycled raw materials
- Analyse the economic dimension of paper recovery/recycling in Greece



## Own contributions to E48

Greece

DUTH/FMENR

### Finished or current projects in the area of E48:

- “Characterisation of packaging from paper and paper products through the study of fibre composition”, EU Marie Curie Post Doctoral Fellowship, contract number HPMD-CT-2000-00043, 2003-2004

### Projects submitted or planned during the duration of E48

- Collective Research project MODELPACK “Advanced Quality Prediction Tool for Knowledge-Driven Packaging Design and Manufacturing in European SMEs”, contract number 030299-2, 2006

### Specific tools (equipment/software) relevant for E48 objectives

- Full microscopy facilities for fibre analysis/morphology measurements

- Access to national/international databases of the paper sector



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

Greece

DUTH/FMENR

### **Project 1: Characterisation of packaging from paper and paper products through the study of fibre composition**

- *EU Packaging Directive 94/62/EC, Resolution on paper and board materials and articles intended to come into contact with foodstuffs*
- *Develop a database of information that can be used to design a paperboard based on performance needs and specify the fibre type or mixture necessary to achieve the performance*
- *Fibre qualitative/quantitative analysis*
- *Publications in peer reviewed journals, new services offered to costumers*

### **Project 1: Collective Research project MODELPACK**

- *Need for knowledge to improve the international competitiveness of European corrugated board industries*
- *Develop appropriate quality prediction systems for both cost reduction and quality increase in packaging design and manufacturing*



## Organisation of E48 events

Greece

DUTH/FMENR

**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

Greece

DUTH/FMENR

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

Name	Organisation	Expertise
Prof. Elias Voulgaridis	Aristotle University of Thessaloniki	Wood and nonwood fibre properties in relation to utilisation practice
Hellenic Packaging Institute	Hellenic Foreign Trade Board	Technical assistance in matters of product packaging
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# Expectations and offers concerning STSMs <sup>Greece</sup>

DUTH/FMENR

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

- .....
- .....
- .....

**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**

- **Characterization of fibrous recycled raw materials**
- **Correlate fibre type/anatomy with paper's performance**