



Participating organisation

Bulgaria

Assoc. Professor in Pulping Technology
Department of Pulp, Paper and Printing Arts
University of Chemical Technology and
Metallurgy
1756 Sofia



ivoval@uctm.edu



Organisation's details

Bulgaria



**Assoc. Professor in Pulping Technology, UCTM Sofia,
Bulgaria**

Services/Products:	Education, training and research
Total number of employees:	8
Employees in E48 related areas:	1
Number of students:	26
Research focus:	<ul style="list-style-type: none">• Pulping and bleaching processes• Kinetic models and simulation• Enzyme treatment• IPPC in Pulp and Paper Industry
Ownership structure:	state owned



E48 representative's presentation (I)

Bulgaria

Ivo Valchev

Assoc. Professor Dr.- Ing.

Department of Pulp, Paper and Printing Arts

University of Chemical Technology and Metallurgy

1756 Sofia, Bulgaria

ivoval@uctm.edu

Tel.: +359 2 962 2887

Academic background:

- **Master of pulp and paper technology (UCTM Sofia 1984)**
- **PhD in pulp and paper technology (UCTM Sofia 1989)**
- **Assoc. professor (UCTM Sofia 2002)**

Areas of expertise:

- **Pulp manufacturing**
- **Paper recycling**
- **IPPC**

Function in COST E48:

Member of WG2





E48 representative's presentation (II)

Bulgaria



Ivo Valchev

Most relevant publications in the field of E48:

- 1. Valtshev I, Bentscheva S., Christova E., Investigation of the effect of enzyme action on the beating, draining and deinking of the waste paper, Polymers 96, 16-18 Oct. 1996, Sofia.**
- 2. Valtshev I, Bentscheva S., Christova E., Einfluss der enzyme bei der veredlung von sekundaerfaserstoffen, Wochenblatt fur papierfabrikation, 20, 1348-1351, 2001.**
- 3. Valchev I., Valcheva E., Radeva G., V. Panov, Enzymes in pulp bleaching – Present and future application, The 8TH Meeting of pulp and paper industry of Balkan countries, Oct. 2-5, 2001, Albena, Bulgaria.**



Own expectations in E48

Bulgaria



- **Development of new technologies for waste paper cleaning and for better recycled pulp quality**
- **Improving of techniques for the treatment of residues from recycled pulp stock preparation systems**
- **Generation of projects addressing the waste paper utilization**



Own contributions to E48

Bulgaria



- **Finished or current projects in the area of E48:**
 - **Project 1: Enzymes using in waste paper treatment and papermaking**

- **Projects submitted or planned during the duration of E48**
 - **Aspects of deinking pulp bleaching**

- **Specific tools (equipment/software) relevant for E48 objectives**
 - **Pulp bleaching equipment**



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

Bulgaria



- **Project 1: Enzymes using in waste paper treatment and papermaking**

- *Review of enzyme action on the properties of waste paper*
- *Investigation of the effect of enzyme treatment on the deinking process and on the properties of different waste papers*
- *It is studied the influence of the action of xylanases, cellulases, lipases and amylases on the deinking process and pulp properties*
- *It is obtained more significant effect of the amylases on the brightness of the deinking pulp, while cellulases improve drining or beating properties*



Organisation of E48 events

Bulgaria



•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)



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Expectations and offers concerning STSMs

Bulgaria



- 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
 - Aspects of deinking processes
 - Bleaching and the properties improving of the secondary fibers
 - BAT for recovered paper processing