UNLOCKING THE CROATIAN TEXTILE RESEARCH POTENTIALS

SEVENTH FRAMEWORK PROGRAMME

DISSEMINATION CONFERENCE

FP7-REGPOT-2008-1-229801

T-Pot - Unlocking the Croatian Textile Research Potentials

INSTYTUT WŁÓKIEN NATURALNYCH I ROŚLIN ZIELARSKICH
INSTITUTE OF NATURAL FIBRES & MEDICINAL PLANTS

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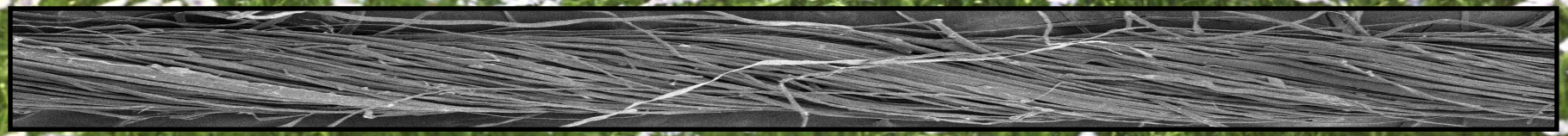
Zagreb, 16th February 2012

INFMP activity in T-Pot project

- **Cooperation within the area of natural fibers and fibre reinforced composites**



Kick off meeting

Zagreb, 2-3March 2009

Presentation of activity of
Institute of Natural Fibres & Medicinal Plants

Providing information about SEM

Progress meeting of T-Pot Management Bord

Zagreb, 21-24.09.2009

Workshop:
The role of innovations, in particular for textile/clothing and ICT sectors

- Oral presentation:
  „Innovations in UV protection by textiles", M. Zimniewska

- Technical Tour – **Kelteks**

Second Progress Meeting

Zagreb 21 - 22. 01.10

3rd International Scientific-Professional Symposium Textile Science& Economy

Paper:

INFLUENCE OF GARMENT MADE OF CELLULOSIC MAN-MADE FIBERS ON SKIN-CLOTHING MICROCLIMATE AND MUSCLES ACTIVITY

M. Zimniewska, J. Huber, T. Torlinska, E. Bogacz

Workshop in GZE

May, 2010

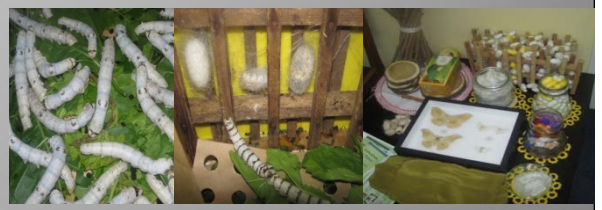
- **GZE activity**
- **Menagement Board Meeting:**
  financial statement, future activities
- **Technical Tour:**
  Company Ponte Torto S.p.A – Textile factory

Workshop in INF&MP Poznan

15-17 June, 2010

I session, 15th June:
CELLUBAST – Centre of Excellence on Natural Lignocellulosic Fibrous Raw materials

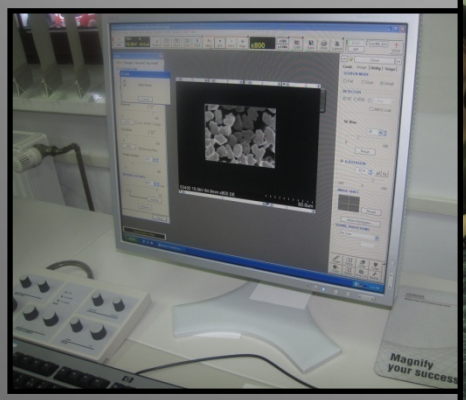
- Biological progress in breeding fibre flax and growing technology in studies carried out at the Institute of Natural Fibres and Medicinal Plants, K. Heller
- Biology and behaviour of silkworms, M. Lochynska
- Analysis of natural fibers with SEM application, Kicińska-Jakubowska, E. Bogacz
- Natural fibres reinforced polymer composites M. Władyka-Przybylak, K. Bujnowicz
- Review of retting methods – Osmotic degumming W. Koncewicz



II session, 16th June, Multifunctional human friendly textile products of new generation

- **Lecture:** Multifunctional human friendly textile products of new generation, M. Zimniewska
- **Practice:**

Practical application of laboratory equipment SEM, other



III session, 17th June:
New methods for utilization of textile wastes

- **Lecture:**

Application of natural fibers wastes, J. Mankowski

- **Technical Tour:**
  - Visiting experimental plant „Lenkon” – Briquettes Manufacturer
  - Museum of agriculture and textile production

5th INTERNATIONAL TEXTILE, CLOTHING & DESIGN CONFERENCE – Magic World of Textiles

October 03rd to 06th 2010, DUBROVNIK, CROATIA

- **EVALUATION OF GARMENT EFFECT ON PHYSICAL ENDURANCE OF SPORTSMEN** – M. ZIMNIEWSKA, M. LAURENTOWSKA, E. BOGACZ & O. ZIMNIEWSKA

- **NANOTECHNOLOGY APPLICATION TO FLAX YARN FOR ANTIBACTERIAL SOCKS** – M. ZIMNIEWSKA, D. HEGEMANN, E. BOGACZ, A. KICINSKA-JAKUBOWSKA, G.SIERPOWSKI

Third Progress Meeting of T-Pot Management Bord

Program for Croatian young researchers - Study in INF&MP

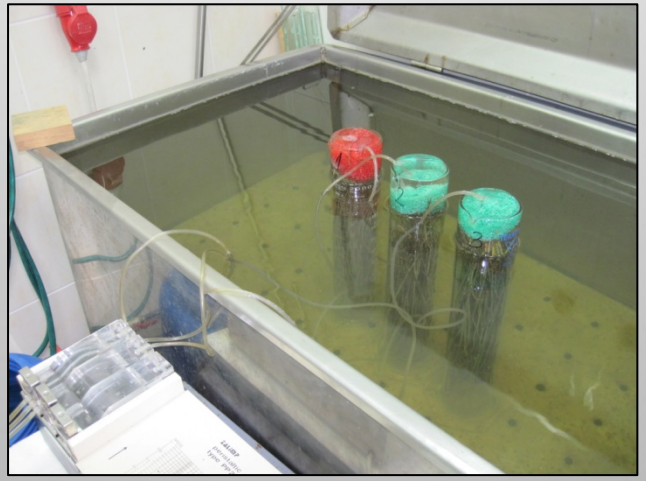
18th October - 10th December 2010

Zorana Kovacevic - research at the premises of INFMP

General topic: Spanish Broom fibres extraction and evaluation

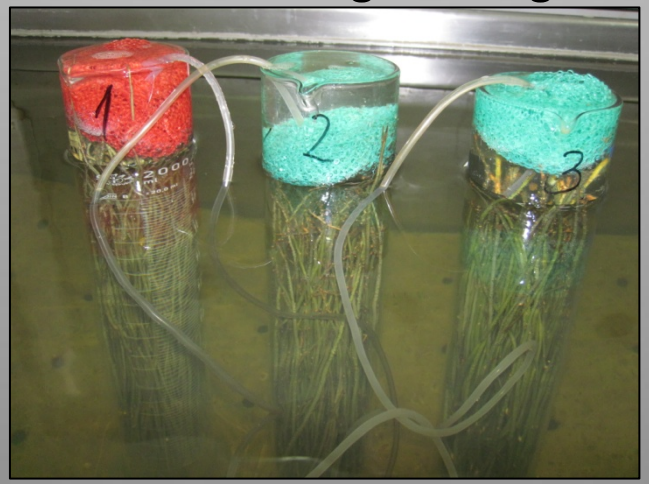
Retting of Spanish Broom plant

Water retting



Osmotic degumming

Enzymatic treatment



The results of the study - the article:

Characterization of Spanish broom (Spartium Junceum L.) fibre as new natural material, Sent to Textile Research Journal

Authors: Z. KOVAČEVIĆ; S. BISCHOF VUKUŠIĆ; M. ZIMNIEWSKA

Program for young researchers in T-Pot project

- Edyta Bogacz visit TTF – 2011

General topic:

The comparison of the methods for quantitative evaluation of nanoparticle covering the linen fabric surface (SEM- Hitachi, FT-IR, Field Emission Scanning Electron Microscope with EDX analysis)".

Edyta Bogacz
research secondment

- **Different methods of quantitative evaluation of nanoparticles covering the linen fabric surface,**
- **Material: nine linen fabrics with different amount of nanoparticles**
- **Determination of the following parameters:**
- Thermal behavior of textile - Thermogravimetric Analyser
- The molecular structure - Fourier Transform Infrared Spectroscopy
- The surface - analytical testing with the use of Field Emission Scanning Electron Microscope with EDX analysis (Energy Dispersive X- Ray) at the SEM Laboratory

Monograph: Protective Textiles

Editor: Sandra Bischof Vukusic

Publisher: University of Zagreb,

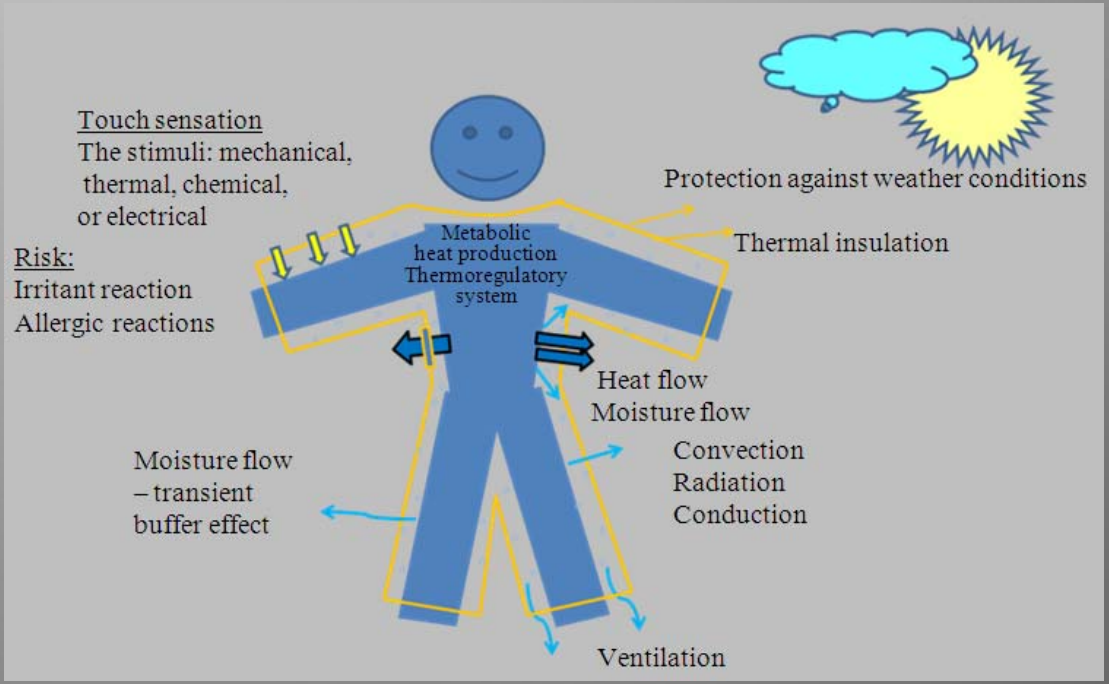
Faculty of Textile Technology

Chapter 13.

COMFORT OF PROTECTIVE TEXTILES

Author:

Malgorzata ZIMNIEWSKA



Further cooperation

Possibility to collaborate in future projects:

- **7FP EU and 7FP EU within relevant call,**
- **ERA-NET, Eureka, others,**
- **European research projects,**
- **Bilateral research projects,**
- **MARIE CURIE INDUSTRY- Industry Academia Partnerships and Pathways 2012**
- **Identifier: FP7-PEOPLE-2012-IAPP**
- **Publication Date:** 19 October 2011
- **Budget:** € 80 000 000
- **Deadline:** 19 April 2012 at 17:00:00 (Brussels local time)
- **Specific Programme(s):** PEOPLE
- **Theme(s):** Marie-Curie Actions

Industry Academia Partnerships and Pathways 2012

Additional eligibility criteria

- one or more research organisations (e.g. universities/research centres) and one or more commercial Enterprises
- must be at least one participant from each of the two sectors and from at least two different Member States or associated countries
- Small consortium is preferred,
- Project duration 36 – 48 months,
- Trainings, research secondment, others,
- forms of grants and maximum reimbursement rates in Annex 3 to the Work Programme
- Evaluation:

- **Knowledge transfer to industry (30%)**
- **Scientific quality (25%)**
- **Cooperation improvement between science and industry (25%)**
- **Implementation of project results (20%)**

Further cooperation

Invitation for publication:

- **Journal of Natural Fibers -** continuation of the previous annual journal Natural Fibres (Wlokna Naturalne), published by the Institute of Natural Fibres, Poznan, Poland,
- The Journal of Natural Fibers ISSN: 1544-046X (electronic) 1544-0478 (paper) published quarterly by Taylor & Francis Group , USA
- Peer-reviewed articles and review papers on basic and applied research, research and development, diversified areas of application, international units and standards, and new technologies
- The Journal of Natural Fibers presents new achievements in basic research and the development of multi-purpose applications that further the economical and ecological production of hard fibers, protein fibers, seed, bast, leaf, and cellulosic fibers; new processing methods and techniques, sustainable agriculture and eco-friendly techniques that address environmental concerns, the efficient assessment of the life cycle of natural fibers-based products, and the natural reclamation of polluted land.

- **Journal of Fiber Bioengineering and Informatics (M. Zimniewska Co - Editor)**
- **Journal of Fiber Bioengineering and Informatics (JFBI) (ISSN 1940-8676) is an academic** peer-reviewed and fully refereed international journal to promote multidisciplinary research and collaborations across different fields such as nano-science, nanotechnology, chemistry, physics, biology, medical science, material science, tribology, textile science and technology, clothing science and technology, mathematics, computer science and informatics, human physiology, anthropology, fashion design and engineering design of fiber products,
- **JFBI aims to create an international forum for exchanging novel ideas to promote the overall impact of** research in fiber science, engineering and technology.
- **JFBI is the official journal of Textile Bioengineering and Informatics Society. It has been supported** partially by the sponsorship of Guangdong-Hong Kong International Textile Bioengineering Joint Research Centre.

Thanks a lot for the friendly atmosphere and fruitful collaboration within T-Pot Project