

UNLOCKING THE CROATIAN TEXTILE
RESEARCH POTENTIALS



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EU Project T-POT
Reports of EU Management Board Members
Dissemination Conference & Final Meeting
Cooperation in the area of technical textiles

16th February 2012
Zagreb

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STFI - Saxon Textile Research Institute



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The institute is located in
Saxony.

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Chemnitz – industrial centre in Saxony



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Profile of STFI



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Application-oriented, process-related and product-related research and development in the fields of:

- Technical Textiles
- Nonwovens / Films
- Warp-knitting / Weaving
- Textile Finishing / Ecology
- Textile Recycling
- Vegetable Fibres
- Technical Nets and Ropes
- Textile Materials Research



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STFI in European Organisations & Networks

- **TEXTRANET – European Network of Textile Research Organisations** (important European contacts & yearly meetings)
- **EDANA – International Association Serving the Nonwovens and Related Industries** (Activities in Technical Expert Groups and Nonwoven Research Academy)
- **European Technology Platform (ETP) for the Future of Textiles and Clothing** (Activities in Thematic Expert Groups 4, 5, 8) organised by EURATEX (European Textile Association)
- **EURO TEXTILE REGION** – textile network in the German Federal States of Brandenburg and Saxony as well as the Polish Republic and the Czech Republic along the joint borders (Activities in INTERREG projects)



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Activities of STFI in T-Pot

Project period: 01.03.2009 – 28.02.2010

Project year 1

- Participation in the Kick-off-Meeting in March 2009, Zagreb
- Participation and contributions in the Innovation-Workshop in September 2009, Zagreb
- T-Pot workshop organized by STFI in December 2010
- Participation and contributions in the TSE Conference in January 2010, Zagreb



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Activities of STFI in T-Pot – Kick-off-Meeting



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Participation in the Kick-off-Meeting in March 2009, Zagreb
→ Presentation of STFI expertise and
→ Contract management obligations



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Activities of STFI in T-Pot – Innovation Workshop



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Participation and Contribution in
Innovation-Workshop in September 2009, Zagreb
→ Presentation of “Innovation – Protection & IPR”
by Petra Frantza
→ Presentation of “Developments in Technical Textiles –
Market and Trends” by Romy Naumann
→ Participation in the excursion to company Keltex



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Activities of STFI in T-Pot – Workshop in Chemnitz



The T-Pot workshop organized by the STFI was held from 29th of November till 4th of December 2009 in Germany. The participants were project coordinator Sandra Bischof Vukušić, Drago Katović, Edita Vujašinović, Eva Magovac, Dragana Kopitar, Žaklina Domjanić, Maja Somogyi, Snježana Brnada and representatives from industry:

- Alan Đurek (Regeneracija) <http://www.regeneracija.hr>
- Marijana Željko (Keltex) <http://www.keltex.hr>

TOPICS: - Seminar on Technical Textiles and STFI facilities
- Participation in the Recycling Colloquium
- Visit of the recycling company SOEX

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Activities of STFI in T-Pot – Workshop in Chemnitz



9th STFI Colloquium

2nd and 3rd December 2009 in GÜNNEWIG Hotel
“Chemnitzer Hof” in Chemnitz

Under the main focus „Sustainability and functionality by recycling-friendly construction“ papers on following topics have been presented:

- Combination of functionality and recyclability
- How to assemble and disassemble textile products in a recycling-friendly way
- Methods for preparation and recycling of textile waste
- Chances for reproducing materials

The papers were held in German, but simultaneous translation into English was offered.

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Activities of STFI in T-Pot – TSE Conference



Participation in the TSE Conference in January 2010, Zagreb

- Paper for publication: “Innovation In Technical Textiles – Exploitation and Transfer of RTD Results”
- Paper for publication: “highSTICK® - Embroidery Technology for Innovative Technical Applications”
- Statement to the current situation of the textile industry in Germany
- Presentation of Poster highSTICK®



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Activities of STFI in T-Pot



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Project period: 01.03.2010 – 28.02.2011

Project year 2

- Project financial accounting for project year 1 in March 2010
- Participation in MGT meeting in Empoli (IT)/May 2010
- Participation in MGT meeting Dubrovnik/October 2010
- Participation in the ITC&DC Conference Dubrovnik/October 2010 with paper and poster presentation

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Activities of STFI in T-Pot – MGT Meeting Emboli



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Participation in MGT meeting in Empoli (IT) in May 2010

- Participation in the meeting
- Discussion about financial reporting
- Active contribution to discussion about future activities



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Activities of STFI in T-Pot – ITC&DC Conference



Participation in the ITC&DC Conference in October 2010, Dubrovnik

- Participation in MGT meeting
- Preparation of 2 publications for the ITC&DC Conference
- Poster presentation at ITC&DC Conference on “Testing of Personal Protective Equipment (PPE) against the Thermal Hazard of an Electrical Arc”
- Oral presentation at the ITC&DC Conference on “Textile Testing for Degradation of Air Cargo Nets”
- Active contribution to the discussion about future activities



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Activities of STFI in T-Pot – ITC&DC Conference



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Activities of STFI in T-Pot



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Project period: 01.03.2011 – 28.02.2012

Project year 3

- **Project financial accounting for project year 2 in March 2011**
- **Participation in the Innovation-Workshop in May 2011 and contribution with a lecture on „Importance of IPR & Exploitation of RTD results“**
- **Researchers Secondment of STFI in May 2011 (1 week)**
- **Review of paper for „TTF's Young Scientists in the Protective Textiles Research“**
- **Active contribution to involve TTF in a new NMP proposal**
- **Chapter writing on PPE for a special book**
- **Participation in the Final Dissemination Conference in February 2012 in Zagreb**

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Activities of STFI in T-Pot – Secondment



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Secondment of STFI researcher in May 2011

Scientist: Dr. Thomas Pfüller

Topic: Investigation of thermal behaviour and ageing of polymers for PPE fabrics and safety nets

Tasks of the Secondment:

- 1) Selection of material (PPE fabrics and nets)
- 2) Setting up of schedule for experimental testing in STFI and TTF
- 3) Testing with equivalent STFI equipment
- 4) Testing with purchased equipment of University Zagreb, TTF
- 5) Comparison, interpretation and evaluation of results
- 6) Preparation of report or publication

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Involvement of STFI & TTF in NMP call and proposal



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Work programme topics addressed:

NMP.2011.4.0-3 Advanced textiles for the energy and environmental protection markets

Titel of project:

Advanced **Textile solutions for pollution recovery from **Oil Spills** in **Extreme** Conditions (TexOtreme)**

Type of funding scheme:

SME-targeted Collaborative Projects

Consortium: 15 Partners from 8 countries

Proposal (second stage) was submitted on 28th April 2011



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Future Activities of STFI in T-Pot



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Chapter writing on PPE for a special book (end of year 2011)

**Topic: Personal Protective Equipment – Certification,
Research and Future Trends**

Hendrik Beier; Petra Frantza; Romy Naumann

Content:

Market potential for protective textiles

Standards and Regulations

(International, European and national standards)

CE-Certification

Development and Research of PPE Material

Future and Trends



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Future Activities of STFI with TTF



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Possible topics for future cooperation:

- Innovative Applications of surface functionalization for Technical Textiles
- PPE developments regarding anti-static properties, cut resistance, heat and flame resistance, dirt repellency
- Networking activities for regional development
- Support by workshops and seminars
- Joint initiatives for research projects in the European Research Framework Programs (FP7 and Horizon 2020)

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Future Activities of STFI with TTF



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Exchange of Researchers and Industry

- Scientific staff and project leaders interested in Technical Textiles
- Marie Curie Actions called under “Industry-Academia Partnerships and Pathways“ (IAPP)
- Include universities and companies of all shapes and sizes, exchange between the commercial and non-commercial sectors
- Focus on joint research projects



(http://cordis.europa.eu/fp7/mariecurieactions/iapp_en.html)

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Acknowledgement



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STFI would like to thank especially SANDRA and her team for coordinating the project with success and engagement



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