

NanotaiTex 2006: Nanotechnology for the Italian textile sector

Nanotechnology and smart textiles for the innovative development of the Textile Industry and Fashion within an European framework

November 15 - 16, 2006
Palazzo Turati, Via Meravigli 9/b, Milano



In collaborazione con:



CONFERENCE SCOPE:

It's a diffused conviction that, considering their ability to make available materials and devices with technical and functional properties greatly improved or completely new, nanotechnology and smart textiles will have a decisive impact on the future development of the textile and clothing sectors. The effects can be huge and affect a large spectrum of sectors: from fashion to transportation, from health to constructions, from cosmetics to environment.

The first day, the Conference will give a representative overview of the current activities and potentialities of these emerging technologies as well as a panorama of the competences existing in the Country to support a commitment in this field. The second day will be devoted to illustrate the role and the importance of collaboration and public funds to support innovation. To this end there will be presented the initiatives/instruments available and some examples of research projects supported by public funds, UE and National.

Facilitation of networking to improve contacts and promote cooperation is also an important objective of the Conference.

CONFERENCE TOPICS:

Functionalisation of textiles by surface treatments to introduce improved characteristics and new functionalities; nanocomposite fibers with innovative structural and functional properties and related spinning technologies; nanoparticles for fibers and textiles with novel characteristics; electrospun nanofibers and their applications; smart-textiles for textiles/clothing with self-adaptive or tunable characteristics; new solutions for products identification & tracking.

PROGRAMMA

Day 1, Wednesday 15th November 2006

State of the art of R&D and applications on nanotechnology and smart textiles

9.45 -10.15 Registration

10.15 Welcome and Introduction

Sergio E. Rossi, Camera di Commercio di Milano,

Aldo Tempesti, TexClubTec

Elvio Mantovani, AIRI / Nanotec IT

10.30-12.40, Morning session, Chair: **Giorgio Mazzuchetti**, CNR ISMAC, Biella

10.30-11.00 **Josè Kenny**, **Università di Perugia**
Nanotechnology and smart textiles in the textile and clothing sector: state of the art and perspectives

11.00-11.25 **Jerico Biagiotti**, **Meraklon SpA**
Process, shape and material: three parameters in the development of polyolefin nanostructured fibers

11.25-11.50 **Moreno Cremaschi**, **Biofarmitalia SpA**
Nanotechnology and wellness: the new technological horizon and its application for the daily wellness

11.50-12.15 **Danilo De Rossi**, **Università di Pisa**
Electronic textiles based on electroactive polymer: materials, devices and applications

12.15-12.40 **Giovanni Camino**, **Politecnico di Torino, sede di Alessandria**
Polymer nanocomposites for textile applications

12.40-14.00 Lunch

14.00-17.40 Afternoon Session, Chair: **Bruno Marcandalli**, **Stazione Sperimentale della Seta**

14.00-14.25 **Pierandrea Lo Nostro**, **Consorzio Sistemi a Grande Interfase**
Colloid nanosystem applications for textile uses

14.25-14.50 **Raimundo Mediavilla**, **Saati SpA**
Plasma treatments for production of technical textiles for serigraphy and filtration

14.50-15.15 **Claudia Riccardi**, **Università di Milano Bicocca**
Functionalization of textiles by atmospheric plasma

15.15-15.40 **Jan Marek**, **Inotex Sro, Czech Republic**
Smart textiles for smart people... how to achieve new added value (multi)functional effects using almost conventional finishing procedures and devices

15.40-16.00 Coffe break

16.00-16.25 **Annalisa Aluigi**, **CNR ISMAC, Biella**
Keratin /polyetilenoxide nonwoven fibers: structure and properties

16.25-16.50 **Pierfrancesco Morganti**, **MaviSud Srl**
Textiles fibers with chitin nanofibrils

16.50-17.15 **Pierre Paul Jobert**, **DGTec SaS, France**
Nanomaterials for textile applications is a reality

17.15-17.40 **Stefano Gallucci**, **Singular ID Italia Srl**
Anticounterfeiting and grey market control: a nanotechnology approach

17.40-18.40 Poster session

Day 2, Thursday 16th November 2006
**Initiatives and opportunities for the textile and clothing sector in European
and national research programs**

8.45-9.20 Registration

9.20-9.30 Introduction to Day 2, Chair: Aldo Tempesti, TexClubTec

9.30-10.50, Chair: Aldo Tempesti, *TexClubTec*

09.30-10.00 **Odile Demuth, DG Ricerca, Commissione Europea**
*7th Framework Programme 2007-2013, Theme 4, Perspectives for the Textile and
Clothing*

10.00-10.30 **Mauro Scalia, Euratex**
*The European Technological Platform for textile and clothing and the FP7: which
opportunities for technical textiles*

10.30-10.50 **Antonio Martini, Ministero Sviluppo Economico (Economical Development
Ministry);**
*Initiatives of the Italian Economical Development Ministry to support the Textile and
Clothing sector.*

10.50-11.10 **Sesto Viticoli, Dipartimento Progettazione Molecolare, CNR**
CNR initiatives and strategies for application of nanotechnologies to textiles

11.10 -11.30 Coffe break

11.30 - 13.30 Case histories, Chair: Elvio Mantovani, *AIRI / Nanotec IT*

11.30-11.50 **Thomas Fischer, ITV Denkendorf**
*AVALON: Collaborative development of hybrid textiles integrating Shape Memory
Alloys*

11.50-12.10 **Donato Zangani, D'Appolonia**
POLYTEC: Polyfunctional Technical Textiles against Natural Hazard

12.10-12.30 **Rita Paradiso, Smartex**
PROETEX: MicroNanoStructured fibre systems for Emergency-Disaster Wear

12.30-12.50 **Noemie Dumesnil, Capital High Tech**
Technology Transfer Programme and Applications from Space to Textile Sector

12.50-13.10 **Bruno Marcandalli, Stazione Sperimentale per la Seta**
TIMAT: Innovative Technologies for textile materials

13.10-13.30 **Massimo Perucca, Environment Park**
*Research and applications on nanotechnology for the textile sector in Piemonte and
transregional opportunities*

13.30 Closing Remarks

14.00-16.00 Networking

*The Conference will offer the opportunity for forging or strengthening links for cooperation also in the view of
the incoming National and European programmes.*

Simultaneous translation service will be available

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