

E-MRS 2014 FALL MEETING

Symposium M: 'Functional Textiles – from Research and Development to Innovations and Industrial Uptake'

15 - 19 September 2014, Warsaw University of Technology, Poland

Symposium Organisers:

- Prof. **Rimvydas Milašius** Ph.D., D.Sc., Department of Materials Engineering, Kaunas University of Technology, Lithuania
- Prof. **Paul Kiekens** Ph.D., D.Sc., Department of Textiles, Ghent University, Belgium
- Prof. **Francesco Branda** Ph.D., D.Sc., Department of Materials and Production Engineering, University "Federico II Napoli", Italy

Functional textiles are one of the most important fields in textile industry and textile materials science. They include breathable, heat and cold resistant materials, ultra strong fabrics (e.g. as reinforcement for composites), new flame retardant fabrics (e.g. intumescent materials), optimisation of textile fabrics for acoustic properties.

This symposium will provide a forum for presentation and discussion of the latest scientific achievements, developments and innovations in the field of functional textiles as well as the possibilities for their industrial applications.

The symposium will bring together all innovation actors in the field fostering a multidisciplinary approach between universities, research institutes, SMEs (in textiles 95% of the companies are SMEs) and sector associations.

The symposium will be organized in conjunction with the Coordination Action 2BFUNTEX and supported by members of the COST Action MP1105 FLARETEX and COST Action MP1206 "Electrospun Nano-fibres for bio inspired composite materials and innovative industrial applications"

Hot topics to be covered by the symposium

- Functional fibres
- Textile composites
- Protective textiles
- Technical textiles
- Textile membranes
- Combination of novel materials (ceramics, metal, glass powders) into structural textile based materials
- Industrial needs in the field of functional textiles
- Health & medical textiles
- Nanotextiles
- Flame retardant textiles
- Smart and interactive textiles
- Surface functionalisation and coating of textile based materials
- Industrial applications of functional textiles

Preliminary list of scientific committee members:

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|------------------------------|------------------------------|--------------------------------|
| ■ Prof. Rimvydas Milašius | ■ Prof. Huseyin Kadoglu | ■ Prof. Celeste Pereira |
| ■ Prof. Paul Kiekens | ■ Prof. Victoria Dutschk | ■ Prof. Erich Kny |
| ■ Prof. Francesco Branda | ■ Prof. Antonela Curteza | ■ Prof. Ali Harlin |
| ■ Prof. Lieva Van Langenhove | ■ Prof. Daiva Mikucioniene | ■ Prof. Krzysztof Pielichowski |
| ■ Prof. Viktorija Vlasenko | ■ Prof. Jozef Masajtis | ■ Prof. Thomas Graule |
| ■ Prof. Fatma Kalaoglu | ■ Prof. Ana Marija Grancaric | ■ Prof. Pertti Nousiainen |

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