



Action FP1006

Bringing new functions to wood through surface modification



Welcome to the final meeting and brief summary of
COST Action FP 1006
“Bringing new functions to wood through surface
modification”

Start of Action: 13/04/2011 - End of Action: 12/04/2015

Stefanie Wieland, Chair

8-9 April 2015, Physics School of Aristotle University,
Thessaloniki, Greece



Intention



Wood

Modified Wood

Surfaces

Surface modification & functionalisation

Surfaces are very important in all field of sciences...



Reasons for the Action

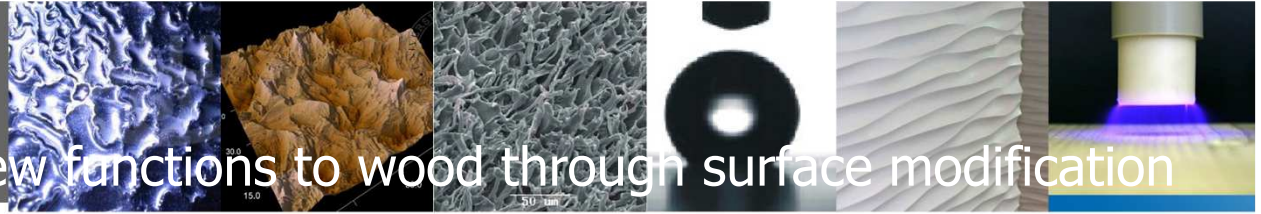
Increasing demand for high and constant quality of wooden products

Steadily rising environmental awareness

New developments in nanotechnology, biotechnology, sensor technology, etc. will contribute towards new developments in the area of wood surface modification for new functionalities.

New material functionalities will help create new products that are not harmful to the environment!





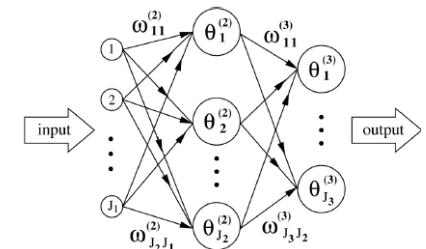
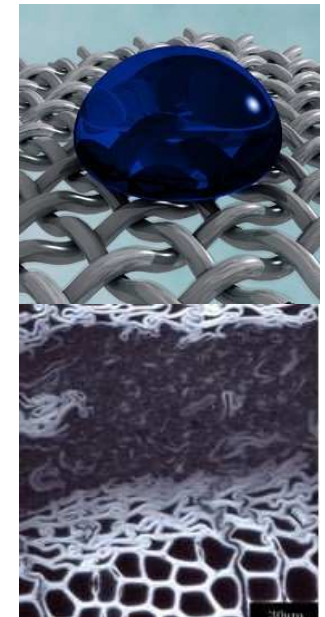
Scientific program

AIM: Establishing a suitable base for innovative surface modification techniques and improved knowledge for upcoming challenges of the forest product sector

→ to investigate new surface modification and functionalization methods for wooden products to enhance existing properties and/or create new properties and/or new products (WG1)

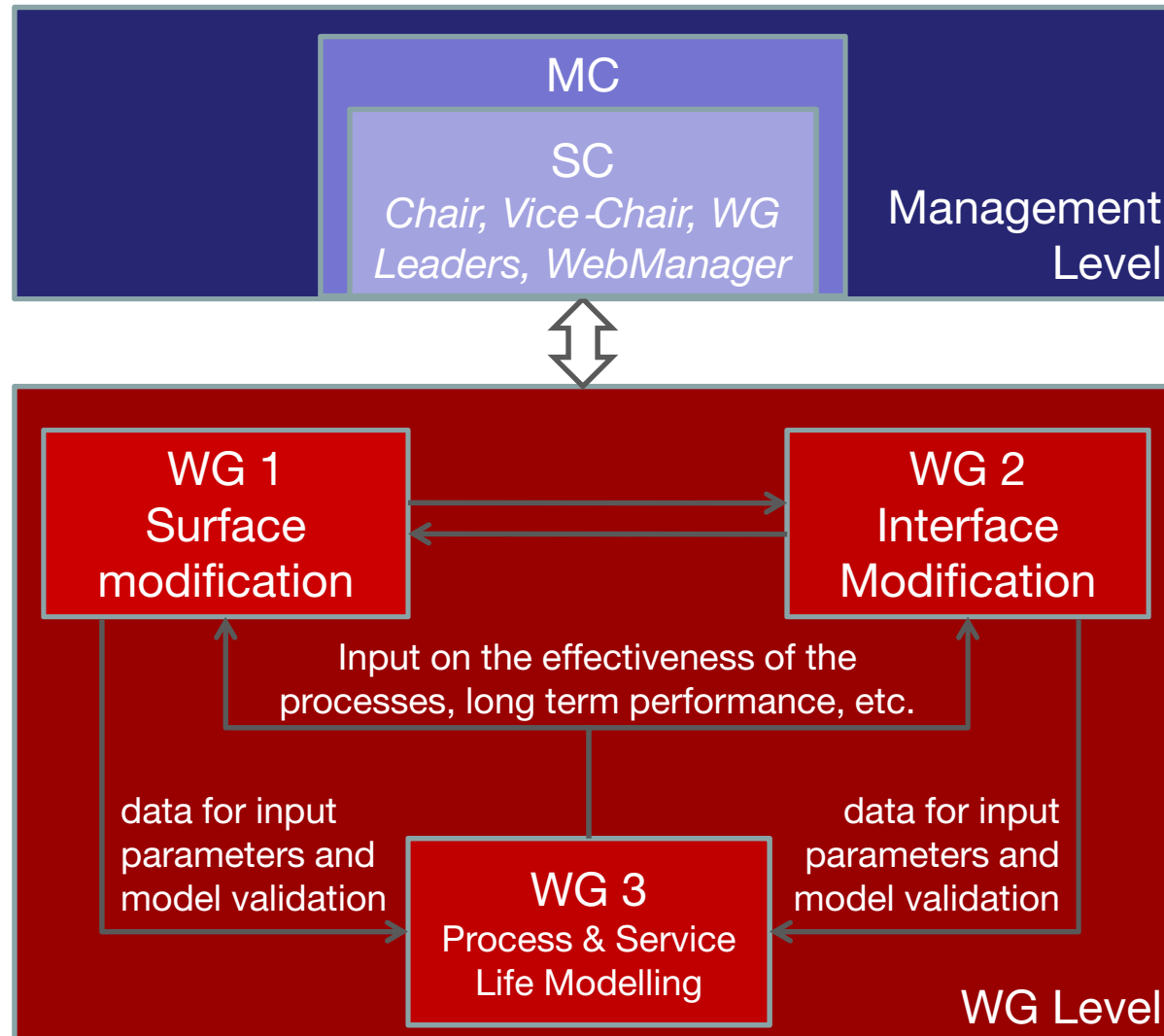
→ to evaluate new wood interface modification methods and processes and investigation of interface interactions (WG2)

→ to investigate adequate models for the description of the changes in material properties during the product life time (WG3)





Organization, links between WGs





The main objective of this COST Action was:



....to provide the scientific-based framework and knowledge for enhanced surface modification of wood and wood products towards higher functionalization and towards fulfilment of higher technical, economic and environmental standards.

This was reached by the use of the COST Instruments and the conduction of a total of **10 Workshops and Conferences, 7 Training Schools and 34 Short term scientific missions!**

Experts from non-COST countries (NZ, Canada, Ukraine)

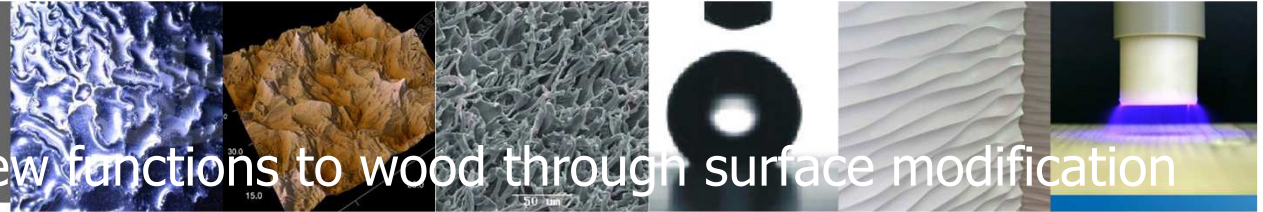
Organizations from academia, R&D institutes, partners from industry...



Use of COST Actions tools...

- close interlinking of researchers
- joint research activities
- researcher mobility (STSM)
- training (TS)
- coordinating research
- bringing together of researchers and industrialists of various disciplines





Impact of the COST Action - **personal**

- April 13 2011:
Kick-Off Meeting in Brussels – highly pregnant
- May 21, 2011:
Giving birth to my 2nd daughter Emilie
- June 21, 2011:
SC Meeting in Kuchl interrupted by
breastfeeding ;)
- ...
- April 8-9, 2015:
Final Meeting in Thessaloniki (after some
sunny family holidays in Spain)
- ... next meeting 2030





Action FP1006

Bringing new functions to wood through surface modification



Impact of the COST Action





Action FP1006

Bringing new functions to wood through surface modification



Thank you all for your enthusiasm and contribution!