



COST FP0904 & FP1006

Thermo-Hydro-Mechanical Wood Behaviour and Processing meets

Bringing new functions to wood through surface modification

CONFERENCE

Characterization of modified wood in relation to wood bonding and coating performance

16th to 18th October 2013
Terme Zreče, Hotel Rogla and Hotel Planja
Zreče, Rogla
SLOVENIA

About COST Action FP0904

The polymeric components of wood and its porous structure allow its properties to be modified under the combined effects of temperature, moisture and mechanical action – so-called Thermo-Hydro-Mechanical (THM) treatments. Various types of processing techniques, including high temperature steam with or without an applied mechanical force, can be utilized to enhance wood properties, to produce eco-friendly new materials and to develop new products. During these THM treatments, wood undergoes mechano-chemical transformations, which depend upon the processing parameters and material properties. An investigation of these phenomena requires collaboration between groups from different wood disciplines; however, to date research has been rather fragmented. This COST Action aims to apply promising techniques in the fields of wood mechanics, wood chemistry and material sciences through an interdisciplinary approach to improve knowledge about the chemical degradation and mechanical behavior of wood during THM processing. This will help overcome the challenges being faced in scaling-up research findings, as well to improving full industrial production, process improvement and the enhancement of product properties and the development of new products.

About COST Action FP1006

Many applications of products are determined by their special surface properties, and based on the physical, chemical and biological interchange of various molecules with the materials surface. This is especially true for the use of wood and wood based products due to the special wood characteristics like anisotropy, UV-degradation. Thus, bringing new functions to wood through surface modification is needed in order to enhance the quality of the existing wood products and to open the way to new applications, products or markets.

This COST Action aims to provide the scientific-based

framework and knowledge required for enhanced surface modification of wood and wood based products towards higher functionalization and towards fulfillment of higher technical, economic and environmental standards. This will be achieved by working within three main areas: Wood surface modification and functionalization, Wood interface modification and interface interaction and Process and Service life modelling.

CONFERENCE TOPIC(S)

The aim of this event is to present materials, technologies, and characterization techniques in relation to wood bonding and coating performance of modified wood:

- Modification techniques (new and/or improved)
- Characterization of modified wood surface
- Formation and properties of the bond line/coating system
- Performance of coated modified wood
- Performance of bonded modified wood
- Performance of surface wood – based panels made from/or in combination with modified wood

LANGUAGE

The meeting language will be English.

PARTICIPATION FEES

Conference fee: 100,00 € (covers lunch, coffee).
There is a 10,00 € surcharge for late registrations.

Payments may be made by cash at registration.

CONFERENCE VENUE AND ACCOMODATION

The conference will be held in two locations. The first day (16th October 2013) will be at Terme Zreče in Zreče and on second and third day (17th and 18th October 2013) at Hotel Planja, in a beautiful surrounding of Slovenian forest on Zreče Pohorje in resort Rogla. Rogla is situated 1517 m above sea level, its beautiful natural scenery provides pleasant climate conditions and stimulating working environment.



The accommodation for the participant needs to be done by the participant himself/herself. Special rates for the participants of the Conference have been negotiated for all the hotels at Rogla.

The transportation from Terme Zreče to Rogla is organized by local organizers (by bus).

Booking details:

The reservation in one of these hotels (with reduced prices) can be made by filling in the Hotel Reservation Form, which should be send to Mrs. Breda Einfalt (breda.einfalt@unitur.eu). Please mention "COST Action Meeting" when you book a room.

Additional information's about Rogla:

<http://www.rogla.eu/en/summer/>

HOW TO REACH THE CONFERENCE VENUE:

By plane:

(1) For those arriving at (or departing from) Ljubljana International Airport Jože Pučnik: shuttle transfers from airport to Zreče is organized. The schedule for shuttle transfer will be announced a week before conference, by local organizer. If you did not jet communicate your travel details, do so by sending an email to Andreja.

Price for shuttle transportation from airport to Zreče is 25 €/person. You will be charged for your transport on-site (pay in cash (EUR)).

(2) For those arriving to (or departing from) Maribor: Taxi is the most convenient way to get to Rogla. It typically costs about 50 EUR from Maribor.

By car:

Search for driving direction to Terme Zreče, Cesta na Roglo 15, 3214 Zreče

SCHEDULE

15th October 2013

12:00 → Registration
20:00 Dinner (unformal)

16th October 2013

09:00 Registration
09:30 Welcome
09:45 – 10:30 Keynote speaker: Kamke F.A.
10:30 – 11:15 Session 1
11:15 – 11:45 Coffee break
11:45 – 13:00 Session 2
13:00 – 14:00 Lunch
14:30 – 15:45 Session 3
15:45 – 16:15 Coffee break
16:15 – 17:30 Session 4
17:30 Departure to Rogla (bus)
18:30 – 19:45 SC FP1006
20:00 Dinner

17th October 2013

09:00 – 09:45 Keynote speaker: Rennecker S.
09:45 – 10:45 Poster session 1
10:45 – 11:15 Coffee break
11:15 – 12:15 Poster session 2
12:15 – 13:45 Lunch
13:45 – 15:15 Session 5
15:15 – 15:45 Coffee break
15:45 – 17:00 Session 6
17:30 – 18:45 Individual meetings
20:00 Conference Dinner

18th October 2013

09:00 – 10:00 WG meeting
10:00 – 11:00 MC meeting
11:00 – 11:30 Coffee break
11:30 – 12:30 Conference conclusions
12:30 – 14:00 Lunch
14:00 Departure to Ljubljana (shuttle)

CORRESPONDANCE ADDRESS

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MORE INFO

<http://www.cost-fp0904.ahb.bfh.ch/cost/en/Home/>

<http://cost-fp1006.fh-salzburg.ac.at>