



## 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

16<sup>th</sup> to 18<sup>th</sup> October 2013  
Hotel Rogla and Hotel Planja  
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: 150,00 € (covers lunch, coffee).  
There is a 10,00 € surcharge for late registrations.

***Payments may be made by cash at registration.***

#### REGISTRATION

To register fill the registration form and send it to dr. Sergej Medved ([sergej.medved@bf.uni-lj.si](mailto:sergej.medved@bf.uni-lj.si)) or dr. Andreja Kutnar ([andreja.kutnar@upr.si](mailto:andreja.kutnar@upr.si))

***The deadline for registration is 04.10.2013!***

## CONFERENCE VENUE AND ACCOMODATION

The conference will be held at Hotel Planja, in a beautiful surrounding of Slovenian forest on Zreče Pohorje in resort Rogla. Situated at around 1500 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 Hotel Planja is the conference venue, whereas other hotels are situated in its near vicinity. Price details (for one person):

Room – Hotel Rogla: 50,00 €

Room – Hotel Planja: 60,00 €

### Booking details:

The reservation in one of these hotels (with these reduced prices) can be made by filling in the Hotel Reservation Form, which should be send to Mrs. Breda Einfalt ([breda.einfalt@unitur.eu](mailto: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 will be organized. The reservation of a shuttle transfer can be made by filling in the shuttle reservation form. The schedule for shuttle transfer will be announced a week before conference.

(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 Hotel Planja, Cesta na Roglo 15, 3214 Zreče  
(<https://maps.google.si/maps?ie=UTF8&cid=13901060226994456961&q=Hotel+Planja&iwloc=A&gl=SI&hl=en>)

## DATES TO REMEMBER

Abstract submission: 15.07.2013 (for FP0904 send to Andreja and for FP1006 to Sergej)

Information about acceptance: 26.07.2013

Full paper submission: 09.09.2013

The conference will start 16.10.2013 with registration at 09:00, and will end on 18.10.2013 at 14:00.

Detailed schedule will be announced later.

## CALL FOR ABSTRACTS

Abstracts of FP0904 participants should be submitted to Andreja ([andreja.kutnar@upr.si](mailto:andreja.kutnar@upr.si)) and abstracts of FP1006 participants to Sergej ([sergej.medved@bf.uni-lj.si](mailto:sergej.medved@bf.uni-lj.si)) by July 15, 2013.

Presenters will be notified by July 26, 2013

## 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>

