

Announcement for the final COST FP1006 meeting “Advances in modified and functional bio-based surfaces” at the Aristotle University of Thessaloniki, Thessaloniki, Greece, from 7-9 April 2015

About COST Action FP1006 and its final meeting

After four years of Action, starting with the Kick-off-Meeting in April 2011 in Brussels, Belgium, the management committee of COST Action FP1006 has decided to finalize the Action with a dedicated conference on “Advances in modified and functional bio-based surfaces”.

Conference objectives

The objective of this conference is to present the latest research developments in wood and bio-based materials surface modification and functionalization, material interface interactions and service life prediction. The conference likes to acknowledge the current state of the art on modern wood surface modifications and serves with the dissemination of information about cutting edge technologies for modification and functionalization of bio-based surfaces. It will also promote new solutions to entrepreneurs active in the field of bio-economy.

Conference topics

Specific topics of interest are (but not limited to) are the following:

Wood surface modification and functionalization

- Chemical changes of wood components during surface modification process
- Wood preservative impregnations
- Wood surface modification and functionalization mechanisms
- Relation between modification and the conferred properties (durability, wettability, colour, etc.)
- Accelerated wood ageing
- Quality assessment methods

Wood interface modification and interface interactions

- Modelling the behaviour of wood during THM treatment
- Wood characterisation during surface modification
- Problems and challenges
- Adhesion improvement by different treatments (e.g. enzymatic pre-treatment)
- Wood interface modification
- Wood bonding
- Interaction between wood and surface coating material
- Welding of wood

Process and Service life modeling, LCA

- Prediction of dosage-response-functions
- Experimental validation of the models
- Numerical simulation of material changes during ageing (i.e. virtual processing)
- Quality assessment methods
- Virtual processing (Numerical simulation of processing, prediction of the new properties)
- Estimation of the long term performance or service life time

Preliminary program

Tuesday 7 April:

14: 00 – 15:00 Registration

15:00 – 17.30 SC meeting

Wednesday 8 April

8.30 – 9.00 Registration and Coffee

9.00 – 9.15 Welcome by the Stefani and the host

9:15 – 10:00 Keynote presentations

10:00 - 12:00 WG1: presentations

12:00 – 13:15 – Lunch

13:15 – 15:15 WG2: presentations

15:15 – 15.45 Coffee break

15.45 – 17.45 WG 3: presentations
... free time
20.00 Dinner

Thursday 9 April

9.00 – 10.00 Presentations of Highlights and Actions of the past 4 years (e.g. conferences & TS, STSM carried out by the COST ACTION)
10.00 – 10.30 Coffee break
10.30 – 11.30 Evaluation of the Action
11.30 – 12.30 Future plans and final MC Meeting
12.30 – 14.00 Lunch– End of session

Conference Chairman

Prof. Konstantinos CHRISAFIS, Aristotle University of Thessaloniki, Greece

Scientific Advisory Committee (Electra, please add and select persons)

Stefanie Wieland, Chair

Dynea AS, Germany

Lone Ross Gobakken, Vice Chair

Norwegian Forest and Landscape Institute, Norway

Gerhard Gröll, WG1 Leader

Holzforchung Austria, Austria

Holger Militz, WG1 Vice leader

University Göttingen, Germany

Electra Papadopoulou, WG2 Leader

Chimar Hellas S.A., Greece

Graham Ormondroyd, WG2 Vice leader

Bangor University, United Kingdom

Sergej Medved, WG3 Leader

Biotechnical Faculty University of Ljubljana, Slovenia

Jakub Sandak, WG3 Vice leader

IVALSA, Germany

Local Organising Committee (Aristotle University of Thessaloniki, Thessaloniki, Greece)

Prof. Konstantinos CHRISAFIS

Supporting organizations

- COST – European Cooperation in the field of Scientific and Technical research
- Aristotle University of Thessaloniki, Thessaloniki, Greece

Call for Papers

You are kindly invited to submit an extended abstract (1-2 pages) related to the topics of the workshop by January 15, 2015. Please send the abstracts to Papadopoulou@ari.gr

Important Dates

January 15, 2015: Extended abstract submission deadline

January 31, 2015: Notification of acceptance of the abstract

February 15, 2015: Submission of revised abstract

March 15, 2015: Registration deadline

Abstract submission

To submit the abstract, it's required to follow the restrict guideline given in the Action website at <http://cost-fp1006.fh-salzburg.ac.at/>. Abstracts will be published in the "Book of abstracts".

Workshop venue

The Aristotle University of Thessaloniki (<https://www.auth.gr/en/uni>) is the largest university in Greece. Its Campus covers some 23 hectares close to the centre of Thessaloniki. The COST ACTION FP1006 workshop will be hosted by the Physics School (<http://www.physics.auth.gr/en>) which is located at the north - west end of the university campus and on the streets Ethnikis Aminis & Agiou Dimitriou (red star on the following map – the yellowish area is the university campus). The circle shows the location of the city centre.

Workshop fee

100 EUR

Accommodation

More information about Thessaloniki and hotels will be available on the Action website <http://cost-fp1006.fh-salzburg.ac.at/> and send out together with the announcement. Participants are asked to make their hotel reservation directly.

About COST

COST - European Cooperation in the field of Scientific and Technical Research - is one of the longest running European instruments supporting cooperation among scientists and researchers across Europe. COST is also the first and widest European intergovernmental network for coordination of nationally funded research activities. More information on COST can be found at the COST website: <http://www.cost.eu/>

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