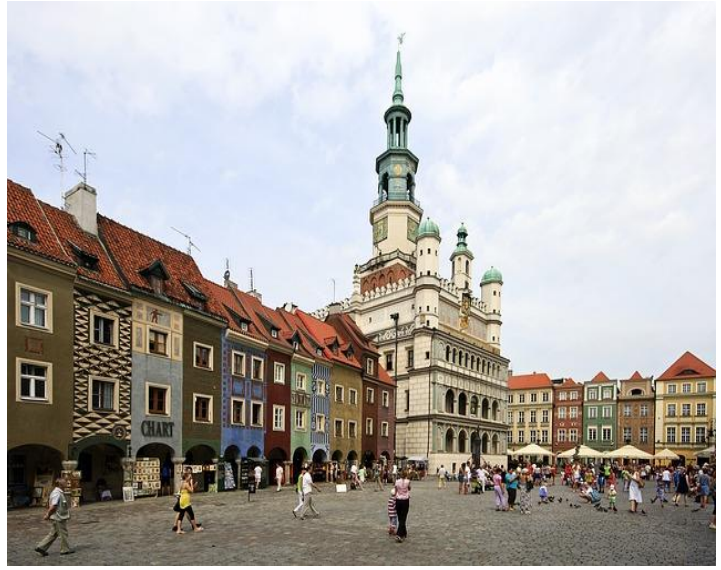
HYGROTHERMAL PERFORMANCE OF BUILDINGS AND THEIR MATERIALS

Joint Conference: COST Action FP 1303 „Performance bio-based building materials” &DURAWOOD Project „Superior bio-friendly systems for enhanced wood durability”

30-31 August 2016, Poznan, Poland

POZNAN

A cosy and also a vibrant city on the Warta river in west-central Poland, with a population reaching 550 000 people, Poznan is an academic, scientific and cultural centre. 5 universities train about 130 thousand students. The city is also an important centre for an industry, trade, logistics and tourism. Being the home of The Poznan International Fair - the largest and the oldest exhibition in Poland it is also one of the most „green cities” in Europe - the green areas cover more than 26% of all Poznan. The biggest tourist attractions are the historic buildings and churches of the Old Town and the Cathedral Island (where the symbolic tomb of the first Polish ruler Mieszko I and the first king of Poland Boleslaw the Brave can be seen) as well as the botanical garden, Palm House and the Zoo (117ha). The most famous cultural event in the city is the Malta Festival.



CONFERENCE SCOPE

The Conference will address the following themes:

- Wood physics
- Hygrothermal properties of wood
- Building materials
- Bio-friendly wood protection

A special joint session with COST 1404:
Future fire safety design of wood products – actual challenges

LOCAL ORGANISER

Faculty of Wood Technology
Poznan University of Life Sciences
Wojska Polskiego 28 street
60-631 Poznan

ORGANISER

CONFERENCE VENUE

Poznan University of Life Sciences
Kolegium Rungego
Wojska Polskiego 52 street
60-637 Poznan

Hygrothermal performance of buildings and their materials - 30-31 August 2016 , Poznan, Poland

1303poznan@gmail.com **www.costfp1303.com/en/Sidor/default.aspx** **www.durawood.up.poznan.pl/conference**

ATTENDANCE is open to anyone, though there will be no additional reimbursements available through COST. Anyone wishing to attend must register by completing the registration form on website.

Conference fee – 50 EUR

IMPORTANT DATES

17-06-2016 - Deadline for submission of abstracts

30-06-2016 - Deadline for registration

CALL FOR ABSTRACTS - An extended abstract (1-2 pages) relevant to the topics of the conference should be submitted by email to the Local Organizer (1303poznan@gmail.com) no later than 17th of June, 2016. Abstracts must be written according to the template given on the action website. The abstracts will be published in the ”book of abstracts” and will be ready for distribution on the first day of the conference.

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. Among the key objectives of COST FP1303 are:

A better understanding of the onset of decay, its prevention and remediation

Comparing materials, especially in different climatic conditions

A better understanding of how materials perform using various analytical methods

Linking materials science, chemistry, biology and physics

Promoting the benefits of biobased materials, so generating greater environmental awareness

Providing better advice for suppliers and end-users

Increasing service lives of biobased building materials

The main overall objective of the project is concentrating on the contribution of wood durability to sustainability through the development of systems for quality assurance and performance classification of eco-friendly treated wood as alternative to wood treated with traditional preservatives and coatings. Methods for testing and characterizing durability performance against physical as well as biological factors will be optimized. Wood treatment with bio-preservatives containing biocide-free, but new, eco-friendly ingredients (organosilicones, alkaloids, imidazoles, oils, etc.) is a well mastered alternative method for wood protection. The interest of this multicomponent system is to allow wood coating as well as wood treatment in a single step process. There is a need to work on such a systems in order to adapt the performance of the treated wood (durability towards wood destroying organisms, fireproofing, etc.) to its end use. Moreover, due to its alternative process, the up-grading and use of local timbers in new end-uses become possible and remain also one of the main objectives of this project. A large and precise evironmental analysis (including LCA) will be also carried out during this project, for all stages of the process: from the formulation to the end of the life time of treated timber.