



*Bangor...*

*is a Cathedral and University City in beautiful North Wales, nestled between the mountains of Snowdonia and the Irish Sea*



PRIFYSGOL  
**BANGOR**  
UNIVERSITY

Biocomposites Centre  
Bangor University, Bangor  
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Wales, UK



**TRAINING SCHOOL**

**3-5th April 2017  
BANGOR, WALES**



**Service life of  
modified wood**  
*Understanding Test  
Methodologies*



## Content and Objectives

In the case of modified wood many traditional testing methods for predicting service life may be misleading due to the nature of the modifications. This training school will show how modification affects wood and how this can affect the interpretation of test results. Lab practicals and tutorials will explore the intricacies of the materials and the methods used to test them. Using the knowledge gained in future LCA will also be encouraged.

## Host and Venue

The training school will be hosted at Bangor University in North Wales with additional instructors from the Italian CNR-IVALSA Trees and Timber Institute. Information on transport and accommodation will be provided separately. Students and other ESR's particularly welcome

## Programme

Day 1 - April 3rd 9.30 - 17.30

- Introduction to LCA
- Practical wood modification
- Case Study: Visit to see modified wood cladding in use on the Halen Mon building

Day 2 - April 4th 9.00 - 17.00

- Practical wood modification
- Liquid and vapour sorption
- Aesthetics and weathering

Day 3 - April 5th 9.00 - 14.00

- LCA
- Service life

## Registration

Please fill in the registration form and forward it to: [FP1407trainingschool@bangor.ac.uk](mailto:FP1407trainingschool@bangor.ac.uk) and [fp1407@iam.upr.si](mailto:fp1407@iam.upr.si) by email no later than **March 1st 2017**.



## About FP1407

The forest-based sector can become a leader in achieving the European Commission's ambitious target of reducing CO<sub>2</sub> emissions with innovative production technologies, reduced energy consumption, increased wood products recycling, and reuse. Wood modification (chemical, thermal, impregnation) is an assortment of the innovative processes currently being adopted. Though many aspects of these treatments are known, the fundamental influence of the process on product performance, the environment, and end of life scenarios remain unknown. It is essential to integrate interactive assessment of process parameters, developed product properties, and environmental impacts. To optimize modification processing to minimize environmental impacts, much more information must be gathered about all process related factors affecting the environment (VOC, energy use, end of life use, etc.). This Action will investigate modification processing and products design with emphasis on their environmental impacts. This will require analysis of the whole value chain, from forest through processing, installation, inservice, end of life, second/third life (cascading) and ultimately incineration with energy recovery.