SERVICE LIFE PERFORMANCE OF COATED WOOD PRODUCTS: PERFORMANCE, DETERIORATION AND MODELLLING

International Workshop for Developments on Micro-credentials in line with the New European Bauhaus

REGISTER HERE

WHEN
8 and 9 August 2023

VENUE
InnoRenew CoE
Livade 6a, 6310 Izola

ATTENDEES
WoodLCC, ARCHI-SKIN and NEBAP Hub members

MEETING MODE
in-person and online (via Microsoft Teams)

OBJECTIVES

The workshop aims to exchange expert knowledge and experience regarding modelling the aesthetic service life of coated wooden surfaces. The vision is to integrate various aspects of coating performance with the building's overall service life framework, including environmental, aesthetic, and economic viewpoints. The results of the workshop will contribute directly to the ambition of the WoodLCC project. The workshop will also boost innovative solutions and provide strategic directions for further research in wood coatings. The workshop is a collaboration between project WoodLCC, ARCHI-SKIN and the New European Bauhaus Academy Pioneer Hub, towards promoting optimal technological solutions and sharing of best practices.

The project GDI UP is co-financed by the Republic of Slovenia, the Ministry of Higher Education, Science and Innovation, and the European Union - NextGenerationEU. The project is implemented in accordance with the Recovery and Resilience Plan (RRP) under the development area Smart, Sustainable and Inclusive Growth, component Strengthening competencies, in particular digital competencies and those required by the new professions and the green transition (C3 K5), for the investment measure Investment F. Implementation of pilot projects, the results of which will serve as a basis for the preparation of a roadmap for the reform of higher education for a green and resilient transition to a Society 5.0: project Pilot Projects for the Reform of Higher Education for a Green and Resilient Transition.

8 August 2023

MEETING AGENDA

9.00–9.05	**Welcome (Anna Sandak, Andreja Kutnar)**
9.05–9.30	**Introduction of participants (all)**
9.30–10.45	**Part 1: State-of-the-art coatings on wood exposed to natural weathering**
	Overview of wood coating types and market trends (Holzforshung)
	Declared/real maintenance intervals and recommended procedure (Holzforshung)
	Typical service lives of wood coatings depending on the coating formulation (Holzforschung)
10.45–11.00	**Break**
11.00–12.30	**Part 2: Understanding service life of wood coatings**
	Aesthetic and performance limit states (Jakub Sandak)
	Typical failure modes for wood coatings (Holzforshung)
	Environmental and economic impacts of wood surface coatings (discussion)
12.30–14.00	**Working lunch**
14.30–16.00	**Part 3: Modelling service life of wood coatings**
	Methodology for the SERVOWOOD-SLP modelling approach (Holzforshung)
	Methodology for the BIO4ever modelling approach (Jakub Sandak)
	Methods of addressing exposure time as a function of degradation-promoting conditions for service-life planning of wood and coating systems (Philip Bester van Niekerk)
	Estimation of material costs and labor time for maintenance of coated wood surfaces (discussion)
16.00–16.15	**Break**
16.15–18.00	**Visit of InnoRenew CoE laboratories**
18.00–19.00	**Partners' discussions/free time**
19.00–21.00	**Dinner**

GREEN, DIGITAL & INCLUSIVE University of Primorska
THE RECOVERY AND RESILIENCE PLAN
REPUBLIC OF SLOVENIA MINISTRY OF EDUCATION, SCIENCE AND SPORT
Funded by the European Union NextGenerationEU
ARCHI-SKIN

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9.00-11.00	**Part 4: Digital solutions for service life modelling, planning and simulation**
	Integration of the coating service life in context of the whole building performance – challenges (discussion)
	BIM – Building Information Modelling: is it an ultimate implementation? (Richard Acquah)
	ClickDesign – simple tool for predicting service life duration (Jonas Niklewski)
	What is really desired by researchers, architects, users – expectations for the perfect tool (discussion)
11.00-11.30	**Break**
11.30-12.15	**Part 5: Directions for further research in wood coatings**
	Performance of coated wood and derived materials – trainings content for the construction ecosystem (Andreja Kutnar)
	Future trends in coatings' development – ARCHI-SKIN project (Anna Sandak)
12.15-12.30	**AOB**
12.30-14.00	**Working lunch**
14.00-18.00	**Networking session**
19.00-21.00	**Dinner**

Note: Each presentation within Part 1 to Part 5 is foreseen as approximate 30 minutes (including discussion), but the timing, sequence, and content will be dynamically adjusted depending on the moderator and participants.