THE INNORENEW COE INTERNATIONAL CONFERENCE 2022



Izola | Slovenia

Rethinking buildings and materials for a sustainable future

AGENDA

THURSDAY 17 NOVEMBER 2022

Session chair: Dr. Daša Majcen

Life cycle assessment of sustainable neighborhoodMohamad Achour

Analysing carbon footprint and life cycle cost (LCC) of a one family dwelling for more sustainable building solutions

TimberLoop – The answer to high value circular timber use Martin Weigl-Kuska

Integration of High-Speed 3D laser scanning and Photogrammetry for Computational Fluid Dynamics Simulation of the Airflow around buildings Richard Acquah

10:35 - 11:00 **Coffee break**



WIFI: INNORENEW GUEST

THURSDAY 17 NOVEMBER 2022

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State-of-the-art solutions for building design and assessment

Session chair: Dr. Daša Majcen

building's dynamic performance

Optimizing neural networks for building energy demand estimation

Sensitivity analysis of comfort parameters

Point cloud and NURBS for modeling a decorative wall panels BIM

Lunch

Environmentally friendly and energy-efficient materials and practices to improve the built environment

Session chair: Jaka Pečnik

Antimicrobial Polylactic acid/Lignin/Cu Nanoparticles Composite Film **Preparation for Food Packaging Applications**

Esakkiammal Sudha Esakkimuthu

Encapsulation of fire retardants in wood modification processes - An overview of recent activities at Luleå University of Technology

Biocarbon with tailored properties for the adsorption of indoor volatile

Factors of wood substitution and their effects in the construction sector

Reaction to fire characterization of densified-processed poplar and beech

Coffee break

Showcase of Modified lignin nanoparticles for composite and bio-aased/Cu packaging applications products (in the framework of the MSCA project),

Tilia room

Esakkiammal Sudha Esakkimuthu

Environmentally friendly and energy-efficient materials and practices to improve the built environment

Session chair: Jaka Pečnik

Upcycling of wood and textile&leather waste into modern building materials

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Environmentally friendly and energy-efficient materials and practices to improve the built environment

Session chair: Jaka Pečnik

Modification of wood via biocarbon particles impregnation Tania Langella

Emission of VOCs from wood materials and impact on indoor environment

Analysis and implementation of veneer production waste in order to design decorative wall panels

Closing

InnoRenew building tour (optional)

Conference dinner



Coffee

Bridging the gap between research and society

Session chair: Sasikala Perumal

Communication strategies for waste management in the local community: a case study of Chak Daeng temple, Thailand

Bridging the gap between research and society with education for sustainable development

Implementation of spectral sensors and chemometric modelling for development and support of smart supply chain in the agri-food sector

Communication of sustainable construction topics through social media

Carbon storage in harvested wood products in Europe – State of the Art analysis and research outlook

Climate change adaptation and mitigation activities of Austrian and







































FRIDAY 18 NOVEMBER 2022







10:30-11:00 **Coffee break**

11:00 - 12:00 Built environments for well-being

Session chair: Dr. Dean Lipovac

Wood material and its positive impact in the context of preschool educational programs

Jakub Hanták

The impact of built environment on movement behaviours: a brief overview of the systematic reviews

Kaja Kastelic

Addressing older adults' needs with built environment features –

Systematic literature review

Mateja Erce

The influence of the position of noise sources in lecture halls and its

impact on the subjectively evaluated speech intelligibility

Rok Prislan

Closing

Dr. Michael Burnard, InnoRenew CoE Deputy Director

Workshops

12:05 - 13:30 Wood material flows modelling: issues, challenges, and a better

future for our youth

Dr. Crtomir Tavzes, Dr. Balázs Dávid

13:30-14:30 Renewable material composite preparation

Dr. Esakkiammal Sudha Esakkimuthu

12:05 - 14:30 Cold refreshment

