

THE INNORENEW COE  
INTERNATIONAL CONFERENCE  
2022

Izola | Slovenia



2022

# AGENDA

## THURSDAY 17 NOVEMBER 2022

8:00 - 8:45

**Coffee**



8:00 - 8:45

**Registration**

9:00 - 9:05

**Welcome**

Dr. Michael Burnard, InnoRenew CoE Deputy Director

9:05 - 9:35

**Keynote**

Assoc. Prof. Dr. Thomas Brudermann

9:35 - 10:35

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

**Life cycle assessment of sustainable neighborhood**

Mohamad Achour

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

Erwin M. Schau

**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**



**11:00 - 12:00 State-of-the-art solutions for building design and assessment**

**In-situ measurements and FE numerical study of InnoRenew CoE building's dynamic performance**

Igor Gavrić

**Optimizing neural networks for building energy demand estimation**

Tamás Storc

**Sensitivity analysis of comfort parameters**

Istvan Dr. Kistelegdi

**Point cloud and NURBS for modeling a decorative wall panels BIM element**

Nikolina Raguž-Lučić

**12:00 - 13:30 Lunch****13:30 - 14:45 Environmentally friendly and energy-efficient materials and practices to improve the built environment**

**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**

Dennis Jones

**Biocarbon with tailored properties for the adsorption of indoor volatile organic compounds**

Mariem Zouari

**Factors of Wood Substitution and their Effects in the Construction Sector**

Theresa Boiger

**Reaction to fire characterization of densified-processed poplar and beech**

Ulises Rojas-Alva

**14:45 - 15:15 Coffee break****15:15 - 16:15 Environmentally friendly and energy-efficient materials and practices to improve the built environment**

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

Patrycja Hochmańska-Kaniewska

**Modification of Wood via Biocarbon Particles Impregnation**

Tania Langella

**Emission of VOCs from wood materials and impact on indoor environment**

Ingrid Bakke

**15:15 - 16:15 Environmentally friendly and energy-efficient materials and practices to improve the built environment**

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

Domagoj Mamić

**16:15 - 16:20 Closing****16:20 - 17:30 InnoRenew building tour (optional)****19:00 Conference dinner**

## FRIDAY 18 NOVEMBER 2022

**8:30 - 9:00 Coffee****9:00 - 10:30 Bridging the gap between research and society**

**Communication Strategies for Waste Management in the Local Community: A Case Study of Chak Daeng Temple, Thailand**

Prapassorn Siriwichai

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

Vesna Starman

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

Albert Kravos

**Communication of sustainable construction topics through social media**

Lea Primožič

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

Daša Majcen

**Climate change adaptation and mitigation activities of Austrian and Slovenian enterprises in the wood-value chain**

Miguel M. Torres

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

11:00 - 12:00

## **Built environments for well-being**

**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

12:00 - 12:05

## **Closing**

Dr. Michael Burnard, InnoRenew CoE Deputy Director

12:05 - 13:30

**Workshop: Wood material flows modelling: issues, challenges, and a better future for our youth**

12:05 - 14:00

**Cold refreshment**

