

THE INNORENEW COE
INTERNATIONAL CONFERENCE
2023



2023

13-14 September 2023 | Izola, Slovenia

Interdisciplinary solutions for sustainable
buildings

AGENDA

WEDNESDAY 13
SEPTEMBER 2023



9:00 - 9:30

Coffee

9:00 - 9:30

Registration

9:30 - 9:35

Welcome

Dr. Andreja Kutnar, InnoRenew CoE Director

9:35 - 10:05

Keynote

Alan Organschi, Gray Organschi Architecture, USA and Bauhaus Earth, Germany
Building a Biomaterial Framework for System Change

10:05 - 11:20

**Sustainable Solutions for Environmental Impacts,
Recycling, and Design Optimization**

Session chair: Albert Kravos

**Environmental impact of phenol from residual water in debarking
processes and comparison with fossil based phenol**

Erwin M. Schau - InnoRenew CoE, Slovenia

LPWAN sensors for timber structure monitoring – Challenges & Advantages

Jan Včelák - Czech Technical University in Prague;
Centre for Energy Efficient Buildings, Czech Republic

**Lignin-based covalent adaptable networks (CANs): A potential
substitute for thermosets made of fossil fuels**

Davide Benedetto Tiz - Department of Catalysis and Chemical Reaction Engineering;
National Institute of Chemistry, Slovenia

13 - 14 SEPTEMBER 2023 | IZOLA, SLOVENIA

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10:05 - 11:20

Sustainable Solutions for Environmental Impacts, Recycling, and Design Optimization

Session chair: Albert Kravos

Fault detection and diagnostics

Dušan Janjić - Robotina D.O.O, Slovenia

Olive leaf biomass evaluation methods

Albert Kravos - InnoRenew CoE, Slovenia

11:20 - 12:00

Coffee break

12:00 - 12:45

New European Bauhaus (Co-design, Solutions, Aesthetics)

Session chair: Eva Prelovšek Niemelä

Demonstrating innovative wood-based materials and products in green public procurement: the co-design of the BASAJAUN demo building following the New European Bauhaus values and principles

Vanesa Baño - InnovaWood, Belgium

Designing hospitality. New European Bauhaus and possibilities of dialogical hotel design

Irena Weber - University of Primorska, Faculty of Tourism Studies - Tourism, Slovenia

Tilen Nipič - University of Primorska, Faculty of Tourism Studies - Tourism, Slovenia

Color changes in natural and treated wood

Marica Mikuljan - InnoRenew CoE, Slovenia

12:45 - 14:00

Lunch

14:00 - 14:45

Engineered Living Materials

Session chair: Anna Sandak

Bioinspired living coating system for wood protection: Exploring fungal species on biofinish coated wood surfaces

Faksawat Poohphajai - InnoRenew CoE; University of Primorska, Andrej Marušič Institute, Slovenia

Fungal colonisation on biobased cladding materials assessed with conventional and high throughput methods

Anna Sandak - InnoRenew CoE; University of Primorska, Andrej Marušič Institute, Slovenia

Time-lapse microscopic analysis of Aureobasidium spp. growth and insights into environmental adaptation

Ana Gubenšek - InnoRenew CoE; University of Primorska, Andrej Marušič Institute, Slovenia

14:45 - 15:15

Coffee break



15:15 - 16:00

Sustainable Construction and Sustainable Buildings

Session chair: Lei Han

Circular bio-based construction in Portugal

Carlos Oliveira Augusto - CITAD - Research Centre on Territory, Architecture and Design

Cross-laminated timber furniture as earthquake shelter: Updates on the Lifeshell concept

Marco Fellin - National Research Council, Institute of BioEconomy, Italy

Fire behaviour of thermo-hydro-mechanical (THM) densified poplar

Lei Han - InnoRenew CoE, Slovenia

16:00 - 16:05

Closing

16:05 - 17:05

InnoRenew CoE building tour (optional)

19:00

Conference dinner

THURSDAY 14
SEPTEMBER 2023

9:00-9:30

Welcome coffee

9:30-10:30

Knowledge Transfer, Social Impacts, and Human Health and Preferences

Session chair: Dean Lipovac

Evaluating the potential of citizen science in transition to a more sustainable society

Maruša Gorišek - Institute for Developmental and Strategic Analysis, Slovenia

Frane Adam - Institute for Developmental and Strategic Analysis, Slovenia

The role of social life cycle assessment in the housing market

Alberto Quintana Gallardo - Centre for Physics Technologies, Spain

Natural appearances on wooden wall coverings in interiors - the opinion of potential users

Domagoj Mamić - University of Zagreb, Faculty of Forestry and Wood Technology, Croatia

Age friendly indoor built environment

Veronika Kotradyová - BCDlab, Faculty of Architecture and Design STU, Slovakia

**THURSDAY 14
SEPTEMBER 2023**

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10:30-12:00

Interdisciplinary Topics for Sustainable Buildings

Session chair: Matthew Schwarzkopf

Analysis of the influence of the properties of building materials in load-bearing sandwich structures on fire resistance

Katarína Košútová - University of Žilina, Faculty of security engineering, Department of Fire engineering, Slovakia

Car fire blankets as a tool for fire spread control in parking garages

Kristián Slašťan - University of Zilina, Slovakia

Chemical and enzymatic starch modification for various sustainable application

Marica Mikuljan - InnoRenew CoE, Slovenia

The impact of environmental awareness on customer needs and purchasing behavior related to residential renovation and furnishing in Slovenia

Nežka Sajinčič - InnoRenew CoE, Slovenia

Traditional material culture in built environment and wellbeing

Veronika Kotradyová - BCDlab, Faculty of Architecture and Design STU, Slovakia

Enhancing spatial resolution in durability assessment of wood at different scales: a data-driven approach for moisture content prediction

Jonas Niklewski - Lund University, Sweden

12:00-12:30

Discussion on Micro-credentials within NEBAP Hub (free of charge)

Dr. Andreja Kutnar and Alan Organschi

12:30-14:00

Lunch

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The conference is organized by the InnoRenew CoE and the University of Primorska in the framework of the project Green, Digital & Inclusive University of Primorska (GDI UP).

The project Green, Digital & Inclusive University of Primorska (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.

