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Vukovar-Srijem County



HRVATSKA KOMORA INŽENJERA ŠUMARSTVA I DRVNE TEHNOLOGIJE



HRVATSKE ŠUME



GALEKOVIĆ  
Kvaliteta u tehnologiji



everything works.



CIPRIJANOVIĆ  
WE BRING WOOD TO LIFE



Zelina d.d.  
DRVNA INDUSTRIJA ZELINA



SIGMA PLUS  
dizajn - funkcionalnost - kvaliteta



tvin.



MOBILAR



di cazma d.o.o.



FLORIAN  
feeling wood



ANTE MIDIĆ  
QUERCUS



Velinac  
ured za Vaš prestiž



kronospan



SINAGO



KREKIĆ  
avangard



Prima.



PEČENEC



Cetina

## Programme Committee:

- |                                               |                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
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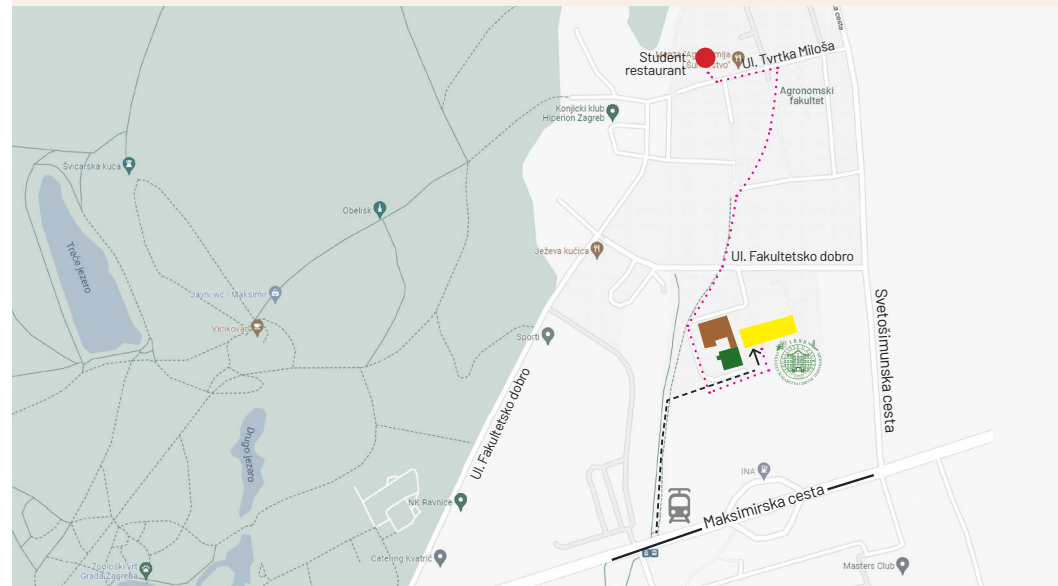
# ICWST 2023

32<sup>nd</sup> International Conference  
on Wood Science and Technology

Zagreb, 7<sup>th</sup> – 8<sup>th</sup> December

# Unleashing The Potential of Wood-based Materials

# PROGRAM



**08:15 – 08:45** Registration of participants along with coffee and cake

**08:45 – 09:00** Opening of the ICWST 2023 conference

Welcome speech: **professor Josip Margaletić, Ph.D.**, Dean of the University of Zagreb Faculty of Forestry and Wood Technology.

**09:00 – 10:00** Invited lectures (30 min presentation)

**Moderators: professor Ružica Beljo Lučić, Ph.D. and assistant professor Miljenko Klarić, Ph.D.**

**Róbert Németh Ph.D.:** Wood Modification Research at the University of Sopron – from Thermal Treatments to Nanotechnology

**Vanesa Baño Ph.D.:** Research Needs for European Species in a Scenario of Increasing Structural Wood Demand in a Bioeconomy Based Model

**10:00 – 10:30** Coffee break and poster section

**10:30 – 11:30** Oral presentations (15 min presentation)

**Moderators: assistant professor Iva Ištok, Ph.D.; associate professor Maks Merela, Ph.D.; professor Alan Antonović, Ph.D.**

**Balzano, Angela; Čufar, Katarina; Krže, Luka; Merela, Maks:** Wood Formation to Evaluate Species Adaptation Capacity in Drought-prone Forests

**Kubista, Kryštof; Šedivka, Přemysl; Zachara, Tadeáš:** Determination of Thermal Insulation Properties of the Developed Material based on Foamed Wood

**Horák, Petr; Borůvka, Vlastimil; Kozel, Jan:** Acoustic Parameters of Birch Wood Compared to Maple Wood and Medium-Density Fibreboard

**Stamenkoska, Ana Marija; Rabadziski, Branko; Zlateski, Goran:** Comparison of Log Taper in Different Wood Species

**11:30 – 11:45** Coffee break and poster section

**11:45 – 12:45** Oral presentations (15 min presentation)

**Moderators: associate professor Andreja Pirc Barčič, Ph.D.; assistant professor Matej Jošt, Ph.D.; associate professor Vjekoslav Živković, Ph.D.**

**Kariž, Mirko; Kitek Kuzman, Manja; Kropivšek, Jože:** Possibilities for Using Artificial Intelligence in Furniture/Woodworking Industry

**Kotradyová, Veronika:** Design-built Projects from Wood as Training Tool for Obtaining Complex Skills

**Goropečnik, Luka; Makovec Radovan, Danijela; Kropivšek, Jože:** Empowering Advancement of the Wood and Furniture Sector Through Key Digital and Sustainability Competencies

**Remic, Katarina; Jošt, Matej:** Assessing the Impact of Forest Management in Life Cycle Assessment: Wooden Table Case Study

**12:45 – 14:00** Lunch break

**15:00 – 18:00** Joint guided walk through Zagreb (Zagreb Advent)

**19:00 – 01:00** Dinner party

## December 8, 2023, Friday // Day 2

**09:00 – 09:30** Coffee, cake and poster section

**09:30 – 10:30** Invited lectures (30 min presentation)

**Moderators: professor Ružica Beljo Lučić, Ph.D. and assistant professor Miljenko Klarić, Ph.D.**

**Aleš Straže Ph.D.:** Use of Acoustic Non-destructive Testing Methods in Primary Wood processing

**Valentina Lo Giudice Ph.D.:** Characterization of Particleboards Produced with Orange (*Citrus sinensis* L.) and Turkey Oak (*Quercus cerris* L.) Wood Species Using Modified Starch as Adhesive

**10:30 – 11:00** Coffee break and poster section

**11:00 – 12:00** Oral presentations (15 min presentation)

**Moderators: assistant professor Azra Tafro, Ph.D.; associate professor Jure Žigon, Ph.D.; associate professor Goran Mihulja, Ph.D.**

**Hýsek, Štěpán; Daňková, Markéta; Jozifek, Miroslav; Němec, Miroslav; Wimmer, Rupert:** Mycelium-based Bio-composites from Recycled Wood: Influence of Fungal Species on Properties of Bio-composites

**Medved, Sergej; Jones, Dennis; Alan Antonović:** Formaldehyde Free Particleboard Bonded with Imidazole Citric Acid Adhesive System

**Dvořák, Ondřej; Sarvašová Kvietková, Monika; Štěrbová, Irena; Sahula, Lukáš:** Increasing the Durability of the Exterior Coating System by Surface Sealing

**Šernek, Milan; Žigon, Jure; Saražin, Jaša:** Bio-based Adhesives Made from Liquefied Wood, Tannin and Lignin

**12:00 – 13:00** Lunch break

**13:00 – 14:00** Oral presentations (15 min presentation)

**Moderators: associate professor Danijela Domljan, Ph.D.; associate professor Aleš Straže, Ph.D.; associate professor Igor Đukić, Ph.D.**

**Gochev, Zhivko:** Real Parameters of a Focused CO2 Laser Beam and its Determination when Using Lenses with Different Focal Lengths

**Merhar, Miran; Bjelić Aldin; Hodžić, Atif:** Modelling of Peripheral Wood Milling Power Using Design of Experiment Approach

**Šafran, Branimir; Dujmović, Marin; Radmanović, Kristijan; Jug Matija; Antonović, Alan; Hasan, Marin; Kruljac; Antonio:** Addition of Rotten Wood with the Aim of Improving the Wood Pellet Properties

**Adamčik, Lukáš; Kminiak, Richard; Banski, Adrián:** Evaluation of the Irregularities of the Milled Surface of Beech, Maple and Birch Wood using Areal Surface Texture Parameters

**14:00** Closure of ICWST 2023 conference