ICWST 2025
33rd International Conference on Wood Science and Technology

# CONFERENCE PROGRAM

**Thursday, December 4, 2025**

*Faculty of Forestry and Wood Technology, Svetošimunska 23, Zagreb*

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| 08:30 | **Registration** (Main hall - yellow pavilion) |
| 09:30 | **Opening** (organizers and sponsors) |
| 09:40 - 10:50 | **Session 1** |
| 09:40 | **Beyond the Surface: Inside Wood Through Advanced 3D Technologies for Teaching and Research**<br>Maks Merela |
| 10:05 | **MycoWall: Organic Insulation for Future Timber Constructions**<br>Petržela, Benjamín; Hýsek, Štěpán; Jozífek, Miroslav |
| 10:20 | **Integrated Life Cycle and Techno-Economic Analysis of Hardwood Cross-Laminated Timber Production in the Eastern United States**<br>Zhao, Jinghan; Wang, Jingxin; Denes, Levente |
| 10:35 | **Possibilities for Using Waste and Mycelium Based Composites in Furniture Design, with a Focus on Outdoor and Temporary Furniture**<br>Dankova, Marketa; Iždinsky, Ján; Dvořák. Ondřej, Jozífek, Miroslav, Gašparik |
| 10:50 - 11:35 | Coffee break and poster section |
| 11:35 - 12:35 | **Session 2** |
| 11:35 | **Research on the Specific Cutting Energy of CO2 Laser Beam Interaction with Solid Wood and Plywood**<br>Halim, Engindzhan; Gochev, Zhivko; Vitchev, Pavlin |
| 11:50 | **The Influence of Varnish on Modulus of Elasticity and Damping in Wooden Musical Instruments**<br>Merhar, Miran; Pavlič, Matjaž; Albreht, Luka |
| 12:05 | **Evaluation of Processing Time in Primary Sawmilling of Scots Pine (Pinus sylvestris) Logs on a Vertical Band Saw**<br>Stamenkoska, Ana Marija; Temelkova, Anastasija; Zlateski, Goran; Trposki Zoran; Rabadziski, Branko; Koljozov, Vladimir |
| 12:20 | **Dendrochronology and Wood Science – New Achievements and New Challenges**<br>Čufar, Katarina; Balzano, Angela; Krapež, Daša; Krže, Luka; Straže, Aleš; Žigon, Jure; Merela, Maks |
| 12:35 - 13:05 | Tour of the wood technology department |
| 13:10 - 14:10 | Lunch |
| 16:00 - 18:00 | Advent downtown tour & Museum visit |
| 19:30 - 23:00 | Dinner |

DAY 1

ICWST 2025
33rd International Conference on Wood Science and Technology

# CONFERENCE PROGRAM

**Friday, December 5, 2025**

*Faculty of Forestry and Wood Technology, Svetošimunska 23, Zagreb*

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| 8:00 - 9:00 | Coffee |
| **9:00 - 10:45** | **Session 3** |
| **09:00** | **Mapping the European Wood Education Community**<br>Zatoń, Patrycja; Jancke, Oliver; Ustych, Radmila; Kies, Uwe |
| **09:15** | **Challenges and Perspectives of Digital Transformation in the Wood Industry**<br>Vukman, Karla; Klarić, Kristina; Miklošić, Denis; Crnojević, Jelena; Perić, Ivana |
| **09:30** | **Mechanical Properties and Free-Formaldehyde Content of Particleboards made with the Addition of Dyed Wood Chips**<br>Španić, Nikola; Brglez; Lucija; Stanešić Juraj |
| **09:45** | **Strength and Weaknesses of some Alternative Adhesives for Particleboard Production**<br>Medved, Sergej; Kopač, Luka; Zorman, Nejc; Humar, Miha; Lesar, Boštjan; Španić, Nikola; Jambreković, Vladimir; Antonović, Alan; Young M. Timothy; Jones, Dennis |
| **10:00** | **Use of Low-grade Feedstock and Torrefaction in the Production of Industrial Wood Pellets**<br>Dujmović, Marin; Radmanović, Kristijan; Jurčević, Ante; Kalaica, Nikola; Plečko, Marcela; Šafran, Branimir |
| 10:15 - 11:00 | Coffee break and poster section |
| **11:00 - 12:30** | **Session 4** |
| **11:00** | **Modelling of Technological Parameters of CNC Milling of Native Wood Species based on the Targeted Quality**<br>Adamčík, Lukáš; Kminiak, Richard; Banski, Adrián |
| **11:15** | **Correlation between Characteristics of Growth Increment and Scratching Resistance of Douglas-Fir Wood**<br>Žigon, Jure; Merela, Maks; Straže, Aleš; Krapež, Daša, Krže, Luka; Balzano, Angela |
| **11:30** | **Douglas-fir versus Norway Spruce: Xylogenesis and Growth Stability under Climatic Stress**<br>Balzano, Angela; Merela, Maks; Krže, Luka; Žigon, Jure; Čufar Katarina; Straže, Aleš; Krapež, Daša; Zajc, Anže |
| **11:45** | **Comparative Study of the Role of Lignin and Liquefied Wood in Improving the Physical-Mechanical Properties of Pellets**<br>Jurišić, Mario; Rustan, Filip; Matin, Božidar, Pervan Dario; Šafran Branimir; Dujmović, Marin; Antonović, Alan |
| **12:00** | **Comparative wood anatomy of L-34 clone of *Populus deltoides* raised by micro- and macro propagation techniques**<br>Gautam, Pallavi |
| **12:15** | **Close of Conference** |
| 13:00 – 14:00 | Lunch |

**DAY 2**