

List of research papers by InnovaWood members

14th World Conference of Timber Engineering (WCTE 2025), Brisbane, Australia

Member organisations represented

- Biel University of Applied Sciences (BFH), Switzerland
- BOKU University of Natural Resources and Life Sciences, Austria
- Centre de Ciència i Tecnologia Forestal de Catalunya -Institut Català de la Fusta (CTFC-INCAFUST), Spain
- Delft University of Technology, The Netherlands
- InnoRenew CoE, Slovenia
- Norwegian Institute of Wood Technology (Treteknisk), Norway
- Tallinn University of Technology (TalTech), Estonia
- Technical University of Munich (TUM), Germany
- University of Ljubljana, Biotechnical Faculty, Slovenia
- OMTRE, Norway

Research papers published in the

WCTE 2025 Proceedings <https://doi.org/10.52202/080513>

1. Avellaneda, A., Giraldo, M. P., Camacho, G., Lacasta, A. M., Correal, E., & Haurie, L. (2025). EFFECT OF ACCELERATED AGING ON THE FIRE REACTION PERFORMANCE OF TWO TYPES OF MODIFIED WOOD. World Conference on Timber Engineering 2025, 4099–4105. <https://doi.org/10.52202/080513-0504>
2. Baño, V., Romih, P., Kuilen, J. W. Van De, & Kies, U. (2025). TRENDS IN THE DEVELOPMENT OF INNOVATIVE TIMBER PRODUCTS ON THE CONSTRUCTION MARKET IN EUROPE. World Conference on Timber Engineering 2025, 4186–4195. <https://doi.org/10.52202/080513-0514>
3. Böhm, F., Jubair, S., Kovryga, A., & Kuilen, J.-W. Van De. (2025). MECHANICAL PROPERTIES OF SECONDARY LUMBER OF NORWAY SPRUCE. World Conference on Timber Engineering 2025, 2444–2453. <https://doi.org/10.52202/080513-0298>

4. Brosch, F., Braun, M., & Kromoser, B. (2025). INNOVATIVE ADHESIVE BONDING IN TIMBER-CONCRETECOMPOSITE SYSTEMS: TOWARDS A COMPETITIVE CEILING SYSTEM. World Conference on Timber Engineering 2025, 4444–4451. <https://doi.org/10.52202/080513-0547>
5. Capuder, M., Azinovic, B., Pondelak, A., Rutkowski, P., Szumera, M., Schwarzkopf, M., Kwiecien, A., Sliwa-Wieczorek, K., & Pecnik, J. G. (2025). DYNAMIC MECHANICAL ANALYSIS OF FPU BONDED BEECH WOOD AT VARIOUS TEMPERATURES. World Conference on Timber Engineering 2025, 1620–1625. <https://doi.org/10.52202/080513-0197>
6. Dietsch, P., & Danzer, M. (2025). DESIGN OF HOLES IN BEAMS – A NEW SECTION FOR EUROCODE 5. World Conference on Timber Engineering 2025, 1–10. <https://doi.org/10.52202/080513-0001>
7. Dietsch, P., Ehrenlechner, C., Frese, M., & Winter, S. (2025). REUSE: GUIDELINE ON THE ASSESSMENT OF THE TECHNICAL INTEGRITY OF DISASSEMBLED TIMBER MEMBERS. World Conference on Timber Engineering 2025, 1786–1795. <https://doi.org/10.52202/080513-0218>
8. Ettelaie, A., Derikvand, M., Kotlarewski, N., & Wallis, L. (2025). AUSTRALIAN PLANTATION EUCALYPTUS NITENS AS AN ALTERNATIVE BUILDING MATERIAL. World Conference on Timber Engineering 2025, 4716–4722. <https://doi.org/10.52202/080513-0580>
9. Fochler, D., Schumacher, N., Fricke, F., Aondio, P., & Winter, S. (2025). IN-PLANE SHEAR: DESIGN OF A NEW PICTURE FRAME TEST CONFIGURATION. World Conference on Timber Engineering 2025, 1527–1534. <https://doi.org/10.52202/080513-0186>
10. Frangi, A., Just, A., Krenn, H., Schmid, J., Werther, N., Hakkarainen, J., Blondeau, R., & Stapf, G. (2025). THE SECOND GENERATION OF EUROCODE 5 – FIRE DESIGN. World Conference on Timber Engineering 2025, 11–18. <https://doi.org/10.52202/080513-0002>
11. Ghazanfari, A., & Kromoser, B. (2025). MULTI-LAYER STRAND-BASED WOOD MATERIALS IN CONSTRUCTION: MECHANICAL PROPERTIES AND TEST METHODS. World Conference on Timber Engineering 2025, 5041–5049. <https://doi.org/10.52202/080513-0620>
12. Han, L., Sandberg, D., & Kutnar, A. (2025). TEMPERATURE-DEPENDENT BENDING MECHANICAL PROPERTIES OF DENSIFIED WOOD. World Conference on Timber Engineering 2025, 247–252. <https://doi.org/10.52202/080513-0031>
13. Jockwer, R., Just, A., Bidakov, A., Tuhkanen, E., & Kochkarev, D. (2025a). EFFICIENT CONNECTIONS FOR MODULAR PREFABRICATED TIMBER BUILDINGS TO HELP RECONSTRUCTION IN UKRAINE. World Conference on Timber Engineering 2025, 602–609. <https://doi.org/10.52202/080513-0075>
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15. Kauniste, M., Saarelaan, T., Just, A., & Tuhkanen, E. (2025). ASSESSMENT OF STRENGTH AND STIFFNESS PROPERTIES OF RECLAIMED STRUCTURAL TIMBER OF NORWAY SPRUCE. World Conference on Timber Engineering 2025, 3484–3493. <https://doi.org/10.52202/080513-0427>
16. Kauniste, M., Tuhkanen, E., Just, A., Nore, K., & Kaljula, S. (2025). THE REUSE POTENTIAL OF RECLAIMED LOGS FOR OPTIMISED ENGINEERED WOOD PRODUCTS. World Conference on Timber Engineering 2025, 3476–3483. <https://doi.org/10.52202/080513-0426>
17. Kies, U., Baño, V., & Pecurul-Botines, M. (2025). European policies influencing wood supply and demand in scenarios until 2040. World Conference on Timber Engineering 2025, 2770–2777. <https://doi.org/10.52202/080513-0338>
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19. Kuilen, J. W. G. Van De, Vries, P. De, Debije, J., Hover, J., Gard, W., & Ravenshorst, G. (2025). DOWEL TYPE CONNECTIONS IN LAMINATED BAMBOO WITH MULTIPLE SLOTTED-IN STEEL PLATES. World Conference on Timber Engineering 2025, 649–656. <https://doi.org/10.52202/080513-0081>
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21. Lehmann, M., Strahm, T., Jung, P., Gronquist, P., & Frangi, A. (2025). RETROFITTING OF CRACKS IN CONNECTIONS WITH GLUED-IN RODS IN BEECH GLULAM. World Conference on Timber Engineering 2025, 5704–5707. <https://doi.org/10.52202/080513-0703>
22. Liblik, J., Pernits, M., Just, A., & Konist, A. (2025). STRUCTURAL FIRE DESIGN WITH AGED RECLAIMED TIMBER: SMALL-SCALE CHARRING PERFORMANCE ASSESSMENT. World Conference on Timber Engineering 2025, 1776–1785. <https://doi.org/10.52202/080513-0217>
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24. Llorens, J. E., Augustynowicz, E., & Sigrist, C. (2025). ENHANCING DESIGN AND PRODUCTION IN MODULAR TIMBER ARCHITECTURE WITH COMPUTATIONAL DESIGN TOOLS. World Conference on Timber Engineering 2025, 2364–2373. <https://doi.org/10.52202/080513-0288>
25. Lucherini, A., & Mózer, V. (2025). INVESTIGATING THE THERMAL PENETRATION IN STRUCTURAL TIMBER ELEMENTS EXPOSED TO NATURAL FIRES. World Conference on Timber Engineering 2025, 3674–3683. <https://doi.org/10.52202/080513-0450>

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27. Manser, N., Steiger, R., Geiser, M., & Frangi, A. (2025). ONE-STOREY TIMBER-FRAMED SHEAR WALLS WITH WINDOW OPENINGS AS PART OF THE LATERAL FORCE-RESISTING SYSTEM. World Conference on Timber Engineering 2025, 4990–4998. <https://doi.org/10.52202/080513-0614>
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30. Nore, K., Jørgensen, P. F., Reséndez, F. T., & Wuyts, W. (2025). CAN THE SIRKTRÉ CONSORTIUM FACILITATE FOR 8% OF THE NORWEGIAN PARIS CLIMATE OBLIGATIONS WITH THEIR CIRCULAR SOLUTIONS? World Conference on Timber Engineering 2025, 3466–3475. <https://doi.org/10.52202/080513-0425>
31. Pagella, G., Mirra, M., Ravenshorst, G., & Kuilen, J.-W. Van De. (2025). STRENGTH GRADING OF SATURATED ROUND TIMBER FOR STRUCTURAL APPLICATIONS. World Conference on Timber Engineering 2025, 4260–4266. <https://doi.org/10.52202/080513-0523>
32. Pantscharowitsch, M., & Kromoser, B. (2025). INDUSTRIAL ROBOTS FOR GLT MACHINING: BASICS AND BEYOND. World Conference on Timber Engineering 2025, 1732–1741. <https://doi.org/10.52202/080513-0212>
33. Schenk, M., Ohm, J., & Winter, S. (2025). EUROCODE 5: FROM MANDATE TO SECOND GENERATION – REVIEW, INSIGHT AND OUTLOOK. World Conference on Timber Engineering 2025, 36–45. <https://doi.org/10.52202/080513-0005>
34. Schumacher, N., Fochler, D., Viereck, L., Aondio, P., & Winter, S. (2025). IN-PLANE SHEAR PROPERTIES OF DISINTEGRATED HYBRID CROSS-LAMINATED TIMBER. World Conference on Timber Engineering 2025, 2919–2925. <https://doi.org/10.52202/080513-0356>
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37. Sigrist, C., Llorens, J. E., & Augustynowicz, E. (2025). SUSTAINABLE AND TEMPORARY USE OF VACANT BUILDINGS AND SITES THROUGH SIMPLE AND MODULAR STRUCTURAL MEASURES. World Conference on Timber Engineering 2025, 350–358. <https://doi.org/10.52202/080513-0044>
38. Sigrist, C., Weijenberg, C., & Lindenberg, K. (2025). NET-ZERO TIMBER BUILDING DESIGN TYPOLOGIES. World Conference on Timber Engineering 2025, 1192–1199. <https://doi.org/10.52202/080513-0147>
39. Simon, A., Gerold, M., Burkart, H., & Müller, A. (2025). THE 2ND GENERATION OF THE EUROCODE FOR TIMBER BRIDGES. World Conference on Timber Engineering 2025, 46–54. <https://doi.org/10.52202/080513-0006>
40. Stritzke, M., & Schuster, S. (2025). CLARIFYING TERMINOLOGY FOR ASSESSING CIRCULARITY IN TIMBER CONSTRUCTION. World Conference on Timber Engineering 2025, 594–601. <https://doi.org/10.52202/080513-0074>
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44. Vilches-Casals, M., & Correal-Mòdol, E. (2025). BENDING STRENGTH ANALYSIS OF NAIL-CROSS-LAMINATED TIMBER PANELS ASSEMBLED WITH WOODEN NAILS. World Conference on Timber Engineering 2025, 5724–5729. <https://doi.org/10.52202/080513-0706>
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46. Wang, X., Koller, R., & Kuilen, J.-W. Van De. (2025). FIBER STRUCTURES AND TENSILE OUT-OF-INTERFACE PROPERTIES OF NATURAL FICUS INOSCULATED CONNECTIONS. World Conference on Timber Engineering 2025, 5392–5400. <https://doi.org/10.52202/080513-0663>
47. Yan, Z., & Flexeder, N. (2025). MOISTURE-INDUCED VARIATIONS IN WITHDRAWAL CAPACITY OF PIN-SHAPED ELECTRODES IN WOOD: EXPERIMENTAL INSIGHTS AND CORRELATIONS. World Conference on Timber Engineering 2025, 688–695. <https://doi.org/10.52202/080513-0086>