

Leverbellista IPOS DP4

Vetenskapliga artiklar

Forsman, K., Serrano, E., Danielsson, H., Engqvist, J. Fracture characteristics of acetylated young Scots pine. *European Journal of Wood and Wood Products* volume 78, pp. 693–703 (2020).

Forsman, K., Fredriksson, M., Serrano, E., Danielsson, H. Moisture-dependency of the fracture energy of wood: A comparison of unmodified and acetylated Scots pine and birch. Accepted for publication in *Holzforschung*.

Yin, H., Sedighi Moghaddam, M., Tuominen, M., Dédainaité, A., Wålinder, M., Swerin, A. (2020) Non-fluorine surface modification of acetylated wood for improved water repellence. *Submitted manuscript*.

Konferenser

Forsman, K., Danielsson, H. and Serrano, E. Fracture Characteristics of Acetylated Scots Pine - An experimental and numerical investigation. CompWood 2019, 17 – 19 June 2019, Växjö, Sweden.

Forsman, K., Serrano, E. and Danielsson, H. Modified wood in outdoor load-bearing structures. Oral and poster presentation. Young researcher's program of the 2019 Marcus Wallenberg Prize events, 7-8 October, 2019.

Forsman, K., Serrano, E. and Danielsson, H., Fracture characteristics of acetylated scots pine and birch, Oral presentation at 15th Annual Meeting of the Northern European Network for Wood Science and Engineering, Lund, 9-10 October 2019.

Forsman, K., Fredriksson, M., Serrano, E. Danielsson, H. Moisture-dependency of the brittleness of acetylated wood. Oral presentation at 16th Annual Meeting of the Northern European Network for Wood Science and Engineering, Helsinki, 1-2 December 2020 (online conference).

Wang, T., Wang, Y., Crocetti, R., Wålinder, M. (2020). Prediction of the tensile strength of birch plywood at varying angles to grain. Oral presentation (first author). In: Sipi, M., Rikala, J. (Eds) Proceedings of the 16th Annual Meeting of the Northern European Network for Wood Science and Engineering – WSE2020, 1–2 December, Helsinki, Finland, p 80-82.

Licentiatavhandlingar

Forsman, K., *Fracture behaviour of acetylated wood – Material characterisation and dowel-type connections*. Licentiate dissertation, [TVSM-3081, Structural Mechanics, Lund University](#).

Yin, H. (2020). Surface-modified wood based on silicone nanofilaments for improved liquid repellence.

Licentiate Thesis in Civil and Architectural Engineering with specialization in Building Materials, ISBN: 978-91-7873-692-8, TRITA-ABE-DLT-2038, KTH Royal Institute of Technology, Stockholm, Sweden.

<http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-285601>

Manuskript

Forsman, K., Serrano, E., Danielsson, H. Brittleness of dowel-type connections made from acetylated wood. To be submitted.

Examensarbeten

Wincrantz C. Finger-jointing of acetylated Scots pine using a conventional MUF resin. (2018). (TRITA-ABE-MBT).

Available from: <http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-240655>

Sjölund, M., & Stenis, N. (2019). Limträhybrider av acetylerad björk och obehandlad gran: En experimentell och numerisk analys av vissa mekaniska egenskaper och fukt beteende (Dissertation). Retrieved from

<http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-255272>

Lai, G. and Plönning, S. (2019) Fracture characteristics of acetylated birch - Experimental and numerical studies, Master's thesis, Report TVSM-5234, Division of Structural Mechanics, Lund University, Lund Sweden.

<http://lup.lub.lu.se/student-papers/record/8990739>

Övriga artiklar

Bygg&Teknik nr. (4/21): "Modifierat trä i bärande konstruktioner"