

Universitatea Transilvania din Braşov
Facultatea Ingineria Lemnului
Departamentul PLDPL

Poz. postului 26
Disciplinele postului : Tratamente termice ale lemnului; Tratamente termice ale lemnului – Uscarea cherestelei; Toleranţe şi control dimensional în Industria Lemnului; Transport tehnologic în Industria Lemnului; Proiectare parametrizată în Industria Lemnului

**FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR UNIVERSITĂŢII
ŞEF LUCRĂRI, poziţia 26**

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Candidat: Ioan Bogdan Bedelea Data naşterii: 6 februarie 1981
Funcţia actuală Asistent universitar Instituţia: Universitatea Transilvania din Braşov

1. Studii universitare (licenţă şi masterat)

| Nr. crt. | Instituţia de învăţământ superior şi facultatea | Domeniul | Perioada | Titlul acordat |
|----------|---|-----------|-------------|-------------------------------|
| 1 | Universitatea Transilvania din Braşov, Facultatea de Ingineria Lemnului | Forestier | 1999 - 2004 | inginer diplomat |
| 2 | Universitatea Transilvania din Braşov, Facultatea de Ingineria Lemnului | Forestier | 2004 - 2005 | inginer cu studii aprofundate |

2. Studii de doctorat

| Nr. crt. | Instituţia organizatoare de doctorat | Domeniul | Perioada | Titlul ştiinţific acordat |
|----------|---------------------------------------|-----------------------|-------------|---------------------------|
| 1 | Universitatea Transilvania din Braşov | Inginerie industrială | 2004 - 2009 | doctor inginer |

3. Studii şi burse postdoctorale (stagii de cel puţin 6 luni)

| Nr. crt. | Instituţia | Domeniul/ Specializarea | Perioada | Tipul de bursă |
|----------|------------|----------------------------|----------|----------------|
| | - | - | - | - |

4. Realizările profesional-ştiinţifice

| Calitatea activităţilor didactice/ profesionale | Din Fişa de evaluare şi din Propunerea de dezvoltare a carierei universitare |
|---|--|
| Lucrări publicate în reviste de specialitate recunoscute naţional internaţional | <ol style="list-style-type: none">Bedelea, B., Muntean, S., Câmpăan, M. Aerodynamic analysis of the drying kilns based on full three-dimensional turbulent numerical computation. Drying Technology (ISI, FI = 1.814, SRI = 0.85, în curs de publicare).Bedelea, B., Lazarescu, C., Avramidis, S. Predicting RF Heating Rate During Pasteurization of Green Softwoods Using Artificial Neural Networks and Monte Carlo Method. Wood Research (ISI, FI=0.27, SRI = 0.493, în curs de |

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| | <p>publicare).</p> <ol style="list-style-type: none"> 3. Bedelean, B. 2014. Comparative analysis between a drying kiln designed with and without top baffles. Journal of the Indian Academy of Wood Science 11 (1) DOI:10.1007/s13196-014-0115-1 (Springer, Scopus). 4. Szmurku, M., Câmpian, M., Nemeth, R., Bedelean, B. 2014. Energy consumption in drying of frozen spruce wood. Environmental Engineering and Management Journal (ISI, FI=1.117, Romania). (Lucrare acceptată http://omicron.ch.tuiasi.ro/EEMJ/pdfs/accepted/468_419_Szmurku_12.pdf) 5. Bedelean, B., Şova, D. 2013. Revealing the relation between independent variables and drying time implemented in Torksim by means of artificial neural networks: A preliminary study. Pro Ligno 9(4) – CABI 6. Şova, D. Bedelean, B. 2013. Statistical analysis of simulated wood drying schedules concerning drying time reduction in an experimental kiln. Pro Ligno 9(4) – CABI 7. Szmurku, M., Câmpian, M., Bedelean, B. 2013. Upon the drying of frozen spruce timber. Pro Ligno 9(4) - CABI 8. Lăzărescu, C., Bedelean, B., Avramidis, S. 2012. Heating characteristics of softwoods in a high frequency field. Pro Ligno 8(4) 9. Bedelean, B., Şova, D. 2012. Performance assesment of a laboratory drying kiln designed with and without baffles. Pro Ligno 8(2) – CABI 10. Bedelean, B., Şova, D. 2011. Investigations into possibility of minimizing aerodynamic resistance of kiln drying stacks. International Wood Product |
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| | <p>Journal 1 (2) – SCOPUS</p> <p>11. Sova, D., Postelnicu, A., Bedelean, B. 2011. Assessment of drying quality by use of Kirpichev number. International Wood Product Journal 1 (2) – SCOPUS</p> <p>12. Bedelean, B., Sova, D. 2010. Metodă de reducere a consumului de energie electrică la uscarea cherestelei. Pro Ligno 6(3).</p> |
| <p>Lucrări prezentate la conferințe naționale/ internaționale în profilul postului</p> | <p>1. Bedelean, B., Șova, D. 2014. A novel method to assembly a drying schedule for softwoods. The 5-th RCCWS International Symposium Wood structure, properties and quality, September 22–25, 2014 Moscova – Mytisch, Rusia http://www.mgul.ac.ru/info/science/conf/rk_sd_5/eng/</p> <p>2. Bedelean, B., Olarescu, C., Campean, M. 2014. Predicting the Compression Strength Parallel to Grain of Heat Treated Wood Using Artificial Neural Networks: A Preliminary Study. The 57th SWST International Convention, June 23-27, 2014, Technical University Zvolen, Zvolen, Slovakia. http://www.swst.org/meetings/AM14/index.html</p> <p>3. Bedelean, B., Sova, D. 2014. Influence of air parameters on drying time and energy consumption during thermo-hydro processing of wood. Recent Advances in the Field of TH and THM Wood Treatment, 19 – 21.05.2014, Suedia. http://www.ltu.se/research/subjects/Trateknik/Konferenser/Cost-Action-FP0904-Conference?l=en</p> <p>4. Sova, D., Sandu, V., Bedelean, B. 2013. The correlation between wood moisture content and air state properties during drying. Thermo-hydro-mechanical wood behaviour and processing - Evaluation, processing and predicting of THM treated wood behaviour by experimental and numerical methods”, Iasi, Romania.</p> |

5. <http://www.cost-fp0904.ahb.bfh.ch/cost/en/Events/Conferences/3rd+conference.htm>
6. Sova, D. **Bedelean, B.**, Purcaru, M. 2013. Effects of simulated wood drying schedules on drying time and energy consumption at an experimental kiln. COMEC 2013, Brasov, Romania.
<https://sites.google.com/site/comec2013brasov/final-programme>
7. **Bedelean, B.**, Sova, D. 2012. Performance assessment of a laboratory timber drying kiln designed with and without baffles using CFD and Torksim software. International Symposium. Forest and Sustainable Development, Brasov, October 19 – 20, 2012, Romania.
8. **Bedelean, I.B.**, Lazarescu, C., Avramidis, S. 2011. Radio frequency dielectric heating characteristics of softwood lumber. Forest Product Society 65th International Convention, 19 – 21 June, Portland, Oregon, America.
<http://www.forestprod.org/ic65/sessions/posters.html>
9. Lazarescu, C., **Bedelean, B.**, Avramidis, S. 2011. Softwood log heating using dielectric fields at radio frequency. Forest Product Society 65th International Convention, 19 – 21 June, Portland, Oregon, America.
<http://www.forestprod.org/ic65/sessions/session1.html>
10. **Bedelean, I.B.**, Sova, D. 2010. Investigations concerning the possibility to minimize the stacks aerodynamic resistance. Proceeding of Cost Action E53, European Drying Group – workshop, May 4, Edinburgh, Scotia.
<http://www.coste53.net/downloads/Edinburgh/Edinburgh-Presentation/02.pdf>.
11. Sova, D., Postelnicu, A., **Bedelean, B.** 2010. *Criterial assessment of the drying quality*. Proceeding of Cost Action E53, European Drying Group – workshop, May

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| | <p>4, Edinburgh, Scotia. http://www.timberdry.net/downloads/EDG-Workshop-Edinburgh/Edinburgh-Presentation/34.pdf</p> <p>12. Sova, D., Bedelean, B. 2009. The characteristic of heat and mass transfer during evaporation of the state of humid air. Proceeding of International Conference of Wood Science and Engineering in Third Millennium (ICWSE), 7th Edition, June 4 – 6, Brasov, Romania.</p> |
| Volum(e) de specialitate publicat(e) în edituri recunoscute național | Tratamente termice ale lemnului. Îndrumar pentru lucrări practice (2013) Editura Universității Transilvania din Brașov. ISBN:978-606-19-0230-9 |

Director de departament,
Prof. dr. ing. Mihaela CÂMPEAN

M. CampEAN

Candidat,
Asist.univ.dr.ing. Ioan Bogdan Bedeleian

I. Bedeleian