Personal Information

LUNGULEASA Aurel

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Gender Male | Date of birth | Nationality Romanien

Professional experience

1985-prezent -University teaching staff; Transylvania University of Brasov, Brasov, Romania

1983-1985 Production engineer, Wood Processing Plant, Drobeta Tr Severin, Romania

EDUCATION AND FORMATION

1990-1999-PhD in Wood Engineering, Transilvania University in Brasov, Romania

1978-1983- University of Brasov, Faculty of Wood Industrialization, Brasov, Engineer Diploma

1972-1977 - High School 2 "Decebal", Drobeta Tr Severin, Wood Industrialization, Baccalaureate Diploma

PERSONAL COMPETENCES

Native language Romanien

Other foreign languages

	UNDERSTANDING		SPEAKING		WRITTING
	listening	reading	Conversation	Oral discurs	
English	B2	B2	B2	B2	B2
	Certificate Transilvania University of Brasov				
French	A1	A1	A1	A1	A1

Communication skills ▪ ▪good communication skills acquired at university admission exam 1998-2009

Organizational/managerial skills

- university college director for 4 years
- scientific secretary, Wood Processing department, 8 years ;
- responsible for quality control in a RENAR accredited laboratory, 3 years

Skills acquired in the workplace

- a good knowledge of managerial control processes, currently being responsible for managerial control and risks at the faculty level;
- a good knowledge of the didactics and methodology of the specialty, currently being responsible for pre-university degrees I and II

Digital competence

Self-evaluation				
Information processing	Comunicatio n	Creation	Security	Solving problems
Independent user	Independent user	Independent user	Independent user	Independent user

- a good mastery of office programs, such as word processing, spreadsheets, presentation software, etc

Driving license B

INFORMATII SUPLIMENTARE

Publicatii -18 carti, 48 lucrari ISI, 22 lucrari BDI, 7 brevete de inventie si 8 descrieri de inventie OSIM
Presentations - 2 presentation as speaker at international conferences
Projects -1 CNCSIS project director, 1 FP7 project member, 4 as a member in national projects
Conferences -over 50 coferences
Seminars -
Distinctions -
Afilieri -AGIR Romania
References -Over 50 citation in ISI si BDI journals
Citări -
Courses 1 robotics course, 2 quality auditor courses
Certifications -Auditor of quality

A. Books

1. Lunguleasa A. *Calitatea produselor lemnoase*, 2015 Editura Lux Libris, Brasov, ISBN 978-973-131-315-3. 165 pag.
2. Lunguleasa A. *Creativitate in tehnica compozitelor lignocelulozice*, 2014, Editura Lux Libris, Brasov, 199 pag, ISBN 978-973-131-272-9.
3. Lunguleasa A – *Semifabricate din lemn*, Editura Universitatii Transilvania din Brasov, CD, pag 207, Brasov, 2012, ISBN 978-606-19-0050-3.

4. Lunguleasa A- *Compozite stratificate*, Editura Universitatii Transilvania din Brasov, pag 168, Brasov, 2012, ISBN 978-606-19-0051-0.
5. Lunguleasa A- *Compozite obtinute prin stratificare*, Editura Universitatii Transilvania din Brasov, CD, pag 181, Brasov, 2012, ISBN 978-606-19-0052-7.
6. Lunguleasa A – *Materiale compozite obtinute din biomasa lemnoasa*, Editura Universitattii Transilvania Brasov, 2009, ISBN 978-973-598-486-1, 122 pag.
7. Lunguleasa A, Ciobanu V, Costiuc L – *Ecological combustion of wooden biomass*, Editura Universitatii Transilvania din Brasov, 2008, 141 pag, ISBN 978-973-598-384-0.
8. Lunguleasa A., Costiuc L., Patachia S., Ciobanu V. – *Combustia ecologica a biomasei lemnoase,* 134 pagini, Editura Universitatii Transilvania, Brasov, 2007, ISBN 978-973-598-194-5.
9. Lunguleasa A. – *Managementul calitatii biomasei lemnoase*, 180 pag, Editura Universitatii Transilvania, Brasov, 2008, ISBN 978-973-598-217-1.
10. Lunguleasa A. - *Wood Physics and mechanics*, Transilvania University Press, Brasov, pp. 129, 2007, ISBN 978-973-598-128-0.
11. Lunguleasa A. - *Placi din aschii de lemn. Calcule tehnologice*, Transilvania University Press, Brasov, pp 128, 2007, ISBN 978-973-598-100-6.
12. Lunguleasa A. – *Semifabricate I - Tehnologia cherestelei si a furnirelor estetice*, Tipografia Universitatii Transilvania, 76 pagini, Brasov, 2004.
13. Lunguleasa A. – *Anatomia si mecanica lemnului*, Tipografia Universitatii "Transilvania", Brasov, 106 pagini 2004.
14. Lunguleasa A. – *Semifabricate II. Tehnologia produselor stratificate si aglomerate din lemn*, Editura Universitatii Transilvania, Brasov, 2005, ISBN 973 – 635 – 440, 106 pagini.
15. Lunguleasa A., Pescaruş P. - "*Studiul lemnului. Fizica şi mecanica lemnului*", Editura Universită ii Transilvania, Braşov, 2000, 105 pag, ISBN 973-9474-59-4.
16. Lunguleasa A. - "*Physics and mechanics of the wood*", Editura Universită ii Transilvania, Braşov, 2001, 134 pag, ISBN 973-8124-33-6.
17. Lunguleasa A. - "*Studiul lemnului şi managementul calităţii acestuia*", Editura Universită ii Transilvania, Braşov, 2002, 295 pag, ISBN 973-635-033-9.
18. Lunguleasa A. - "*Identificarea lemnului*", Editura Universită ii Transilvania din Braşov, 2003, 64 pag, ISBN 973-635-156-4.

ARTICOLS ISI (selection)

1. Spirchez, C., and Lunguleasa, A. (2022). "Torrefaction of spruce, beech, and oak pellets in order to improve calorific value," BioResources 17(4), 6804-6817.
2. Balea (Paul) G, Lunguleasa A, Zeleniuc O, Coşereanu C. Three Adhesive Recipes Based on Magnesium Lignosulfonate, Used to Manufacture Particleboards with Low Formaldehyde Emissions and Good Mechanical Properties. Forests. 2022; 13(5):737. https://doi.org/10.3390/f13050737
3. Lunguleasa A, Spirchez C, Olarescu AM. Calorific Characteristics of Larch (Larix decidua) and Oak (Quercus robur) Pellets Realized from Native and Torrefied Sawdust. Forests. 2022; 13(2):361. https://doi.org/10.3390/f13020361
4. Lunguleasa A, Dumitrascu A-E, Spirchez C, Ciobanu V-D, Influence of the strand characteristics on the properties of oriented strand boards obtained from resinous and broad-leaved fast-growing species, Aplied Sciences Volume 11 Issue 4, 2021, Appl. Sci. 2021, 11(4), 1784; https://doi.org/10.3390/app11041784.
5. Lunguleasa A, Ayrilmis N, Sova D, Spirchez C, Selected properties of briquettes made from blends of bamboo and beech biomass, Turkish Journal of Agriculture and Forestry, Turk J Agric For (2021) 45: 389-401 © TÜBİTAK doi:10.3906/tar-2101-7
6. Spirchez C, Lunguleasa A, Matei M (2018) Particularities of hollow-core briquettes obtained out of spruce and oak wooden waste, Maderas-Ciencia y Tecnologia, 20(1):139-152, ISSN 0718-221x.

7. Dumitraşcu R, Lunguleasa A, Spirchez C (2018) Renewable pellets obtained from aspen and birch bark, BioResources 13(3): 6985-7001.
8. Croitoru C, Spirchez C, Lunguleasa A, Cristea C, Roata IC, Pop MA, Bedoc T, Stanciu EM, Pascu A (2018) Surface properties of thermally treated composite wood panels, Applied Surface Science, 438 (2018) 114–126, doi.org/10.1016/j.apsusc.2017.08.193.
9. Croitoru C, Spirchez C, Cristea D, Lunguleasa A, Pop MA, Bedo T, Roata IC, Luca MA (2018) Calcium carbonate and wood reinforced hybrid PVC composites, Journal of applied polymer science, 438: 114-126, DOI: 10.1002/APP.46317.
10. Spirchez C, Lunguleasa A (2017): Experiments and modeling of the torrefaction of white wood fuel pellets, Bioresources 12(4): 8595-8611, ISSN 1930-2126.
11. Lunguleasa A, Spirchez C (2017): Torrefaction of lamellar panels made of oak and spruce wood species, Wood Research, 62(2), 319-328, ISSN 1336-4561.
12. Lunguleasa A, Spirchez C (2017): Characteristics of waste bark combustion, Environmental Engineering and Management Journal, 16(3), 685-694.
13. Spirchez C, Lunguleasa A (2016): Shear and Crushing Strengths of Wood Pellets, Drewno 2016, 59(198), DOI: 10.12841/wood.1644-3985.170.04, ISSN 1644-3985.
14. Spirchez C, Lunguleasa A (2016): Testing model for assessment of lignocellulose-based pellets, Wood Research 61(2):331-340, ISSN 1336-4561.
15. Griu T, Lunguleasa A (2016): The use of White Poplar (Populus alba L.) biomass as fuel, Journal of Forestry Research 27(3):719-725, ISSN 1007-662X, Springer.
16. Griu T, Lunguleasa A (2016): Salix viminalis vs Fagus sylvatica – fight for renewable energy from woody biomass in Romania, Environmental and Engineering Management Journal 15(2): 413-420, ISSN 1582-9596.
17. Lunguleasa A, Spirchez C, Griu T (2015): Effects and Modeling of Sawdust Torrefaction for Beech Pellets, Bioresources 10(3): 4726-4739, ISSN 1930-2126.
18. Lunguleasa A. Spirchez C (2015): An aggregated property of wheat straw briquettes, Wood Research 60(5):845-856, ISSN 1336-4561.
19. Croitoru C, Patachia S, Lunguleasa A (2015): A mild method of wood impregnation with biopolymers and resins using 1-ethyl-3-methylimidazolium chloride as carrier, Chemical Engineering Research and Design 93(1):257-268, ISSN 0263-8762.

Articols BDI (selection)

1. Spirchez C, Lunguleasa A, Pruna M, Gageu L: Research on the potential of wood energy biomass. International Symposium ISB-INMA-TEH-2016, Bucharest, 27-29 October 2016, ISSN 2344-4118.
2. Spirchez C, Lunguleasa A: :The influence heat transfer coefficient on wood construction. The 16th International Conference AFASES 2015, Air Force Academy, Brasov, Proceedings.
3. Petru A. Lunguleasa A: AFASES 2015. Effects of the laser power on wood coloration, The 16th International Conference AFASES 2015, Air Force Academy, Brasov, Proceedings.
4. Petru A. Lunguleasa A: AFASES 2014. The choice of the pyrometers used for pyrogravure devices. The 16th International Conference AFASES 2014, Air Force Academy, Brasov, Proceedings, pag 84-89.
5. Petru A. Lunguleasa A: AFASES 2014. Wood processing by laser tools.The 16th International Conference AFASES 2014, Air Force Academy, Brasov, Proceedings, pag. 211-219.
6. Petru A, Lunguleasa A: AFASES 2014. Color measurement using digital image analysis, The 16th International Conference AFASES 2014, Air Force Academy, Brasov, Proceedings, pag 221-226.

7. Griu (Dobrev) T, Lunguleasa A, AFASES 2014. Economics consideration on wooden biomass consumption, The 16th International Conference AFASES 2014, Air Force Academy, Brasov, Proceedings, Section: Renewable Energy and Environment, 22-24 May, pag.283-290.
8. Griu (Dobrev) T, Lunguleasa A, Torrefaction of Beech and Spruce Sawdust, Pro Ligno Brasov, 2014 Volume 10, Issue 2, pp 40-45 ISSN 2069-7430.
9. Lunguleasa A. Higroscopicity of chipboard versus solid wood, The 16th International Conference AFASES 2014, Air Force Academy, Brasov, Proceedings, Section: Renewable Energy and Environment, 22-24 May, pag 291-295.
10. Griu (Dobrev) T, Lunguleasa A. The Use of the Biomass as Solid Combustible, RECENT, Vol 15 (2014), Nr 1 (41), March 2014, pp 12-18.
11. Lunguleasa A. -The influence of temperature on the shrinkage of white poplar veneers**,** ICWST 2013-Part 2., Brasov, Pro Ligno; Vol. 9, Nr 4, 2013, pp 450-455. ISSN 2069-7430
12. Lunguleasa A- Durability of wooden briquettes, International Conference of Scientific Paper AFASES 2012, Academia fortelor aeriene Henri Coanda, Brasov, 24-26 May 2012.
13. Lunguleasa A- Comparative researches about straightening of beech veneer undulations, Conf internationala "Scientific symposium Forest and Sustainable development" organizata de Fac de Silvicultura, Brasov 19-20 oct 2012
14. Lica D, Cosereanu C, Budau G, Lunguleasa A – *Characteristics of Reed Briquettes – Biomass Renewable Resource of the Danuble Delta,* Revista Pro Ligno vol. 8, nr. 1, Martie, ISSN 2069-7430 online version, pp. 44-51).
15. Lunguleasa A – *Calitatea si indicele de vanzare al brichetelor lemnoase (Quality and Marketability Index of Wooden briquettes),* Revista Recent, Vol 13 (2012),No. 1(34), pag. 61-65, Brasov, March, 2012.
16. Griu T si Lunguleasa A –*Salix- Renewable energy source*, International Conference of Scientific Paper AFASES 2012, Academia fortelor aeriene Henri Coanda, Brasov, 24-26 May 2012.
17. Griu T si Lunguleasa A – *Genus Salix L. A chapter of renewable energy source*, Conf internationala "Scientific symposium Forest and Sustainable development" organizata de Fac de Silvicultura, Brasov 19-20 oct 2012,
18. Lunguleasa A., *The temperature effect on wood shrinkage*, RECENT–32, B+ si BDI Universitatea Transilvania Brasov, vol 12, nr 2, pag 139-142.
19. Lunguleasa A. - Wooden briquettes versus pellets (Brichetele lemnoase și peleții), Recent nr 3(30), December, 2010, vol 11, ISSN 1582-0246 , pag 217-222.

Patents (selection)

1. RO127159 (A0) – Ecological plywood and process for preparing the same, Cosereanu Camelia; Lunguleasa Aurel; Lica Dumitru; Cismaru Maria; Porojan Mihaela; Brenci Luminita; Iacob Ioan; Iacob Maria; Mihailescu Camelia, 2016.
2. RO127189 (A0) , Low, medium and high density thermally insulating composites board for the construction field and process for carrying out the same; Authors: Cosereanu C, Lazarescu C, Lica D, Lunguleasa A, Cismaru I, Budau G, Fotin A, Sova D, Iacob I , 2015.
3. RO126930-A0, Croitoru C, Patachia S F C, Lunguleasa A –Solutions for wood impregnation, based on natural polymers, method of preparation and process for application, 2016.
4. RO126929-A0, Patachia S F C, Croitoru C, Lunguleasa A, Dispersion for wood impregnation based inorganic compounds and ionic liquids, method of preparation and process of application, 2016.
5. RO126787 (A0), Lunguleasa, A, Method and device for determining the compaction coefficient of lignocelluloses briquettes (Metodă şi dispozitiv pentru determinarea coeficientului de compactare al brichetelor lignocelulozice), 2017.
6. RO125658 –A0, Method and device for determining resistance to compression of minced wood briquettes. Author: Lunguleasa A. 2016.

Prof dr ing Aurel LUNGULEASA Ianuarie, 2024