PERSONAL INFORMATION

Octavia ZELENIUC

Transilvania University of Brasov , 29 Eroilor Street, 500036 postcode, Brasov, ROMANIA
Faculty of Furniture Design and Wood Engineering Braşov, Street Universității 1, Brașov 500068
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Sex: Female | |Nationality - Romanian

POSITION

Assoc. Prof. dr. eng. - Higher education/academic staff

WORK EXPERIENCE

October 2016-Present

Assoc. Prof. dr. eng.

Transilvania University of Brasov, Faculty of Furniture Design and Wood Engineering , Brasov, Romania

▪Teaching, scientific research, Formaldehyde laboratory coordinator

October 2004- Oct. 2016

Lecturer dr. eng.

***Transilvania* University of Brasov**, 29 Eroilor Street, 500056 Brasov, Romania, http://www.unitbv.ro

▪ Teaching, scientific research, Formaldehyde laboratory coordinator

September 1985 – October 2004

Senior Scientific researcher

National Institute of Wood, Bucharest, Romania

▪ Chief of wood drying and protection laboratory

▪ Projects development, technical consultancy

▪ Laboratory and field tests for new wood preservatives for market promotion

Business or sector: Research & development

September 1983 – September 1985

Design engineer

AMIS - Furniture enterprise, Reghin, Romania

▪ Furniture design, and production activity.

Business or sector : Wood processing and furniture manufacturing

EDUCATION AND TRAINING

2014	Postgraduate Program of Continuous Vocational Training and Development – POS-DRU DidaTec- ID 60891 Transilvania University of Brasov	ISCED 6 EQF 8
2009	Postgraduate training course "Integrated quality-risk management Transilvania University of Brasov	
2003-2004	Psycho-pedagogical training for teaching staff Technical University of Civil Engineering, Bucharest	
1992- 2000	**PhD Doctor in Industrial Engineering**	ISCED 6 EQF 8

Transilvania University of Brasov –Faculty of Wood Industry, Brasov- now Faculty of Furniture Design and Wood Engineering , Romania

PhD Thesis title: "Study concerning the influence of the drying parameters on heat and mass transfer during the beech timber drying."

Research in the field of beech drying, establishing the influence of air parameters on the process efficiency, modelling the heat and mass transfer during drying.

- Competences in documentation, scientific research, practical applications.

1978- 1983 **Dipl. Engineer – Wood Industry** ISCED 5a / EQF 7

Transilvania University of Brasov –Faculty of Wood Industry, Brasov- now Faculty of Furniture Design and Wood Engineering, Romania

Skills in technical documentation and scientific research.

PERSONAL SKILLS

Mother tongue(s): Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2/ Independent user	C1 /Proficient user	C1 /Proficient user	C1 /Proficient user	C1 /Proficient user
	Language Certificate Faculty of Letters, University Transilvania Brasov -2008 .				
French	B1/ Independent user	B2/ Independent user	B1/ Independent user	B1/ Independent user	B1/ Independent user
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Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user

Common European Framework of Reference for Languages

Communication skills

- Team co-worker, rigor and methodical spirit, responsibility, good communication skills, gained through my experience as researcher and professor.

Organisational / managerial skills

- Research projects manager (International and national projects/contracts: 20 as coordinator and over 10 as partner between 2004-2019).
- Member in the Conferences and workshop organisation team.
- Formaldehyde Laboratory coordinator.

Job-related skills

- Competencies in wood technology, wood drying and preservation, wood based composites.
- Wood testing: physical, mechanical properties, formaldehyde emissions from wood based products, lab and field tests for wood durability evaluation
- good command of quality control processes (laboratory accreditation acc. EN 17025)

Computer skills

- good command of Microsoft Office™ tools

Other skills
- Developing international relationships – MC member COST E22, E37, Chair FORTECHENVI Conference Prague, ICWSE Brasov, Malta Conference
- Reviwer for International Wood Products Journal and ProLigno Journal, Measurement and MDPI Journal.
- Referent in Commission for doctoral thesis

ADDITIONAL INFORMATION

Publications: 11 books (among which: 4 courses CD, 2 books in co-participations), 6 patents, 20 articles Indexed ISI and 25 indexed BDI

Projects: Over 60 projects (1985-2020) in direct coordination or member in the team

Conferences: 50 International Conference papers and 8 papers in National Conferences.

Specialisation: 2011- Course for accreditated laboratory- Bucharest; 2009 -FCBA France; 2008 Technical France FCBA 2009, Institute SP of Sweden 2006- CNR IVALSA Italy, 2004- BFAFH Hamburg.

Honours and awards: Honour for originality and scientific contribution of presented paper: International Scientific Conference FORTECHENVI 2008, Prague 26-30 May 2008.

Memberships: Member at InterLAB Check – New Zealand (2010-2015).

Member of the Scientific Committtee of the ICWSE Conference

Reviewer of ProLigno Journal, MDPI Journals, Bioresources Journal, Annals of Forest Research.

Member in the editorial board of a Journal „Bucovina Forestieră", Romania, ISSN 1844-8135, and ProLigno Journal, indexed BDI.

PUBLICATIONS (SELECTION)

1. BALEA, G.; LUNGULEASA, A.; ZELENIUC, O.; COSEREANU, C. (2022). Three Adhesive Recipes Based on Magnesium Lignosulfonate, Used to Manufacture Particleboards with Low Formaldehyde Emissions and Good Mechanical Properties. Forests 13: 737. https://doi.org/ 10.3390/f13050737

2. ZELENIUC, O.; COȘEREANU, C. (2022). Effect of Variable Conditions of Exposure on the Physical and Mechanical Properties of Blockboards. Appl. Sci. 2022, 12(2), 609; https://doi.org/10.3390/app12020609.

3. ZELENIUC, O. 2022. Thermal insulation performance of wall structures made of recycled materials. ProLigno Vol 18 (4): 26-35, online ISSN 2069-7430, https://www.proligno.ro/en/articles/2022/4/ZELENIUC_Final.pdf

4. ZELENIUC, O. 2022. Recovered wood and branches for furniture design. ProLigno ProLigno Vol 18 (1): 28-35, online ISSN 2069-7430, https://www.proligno.ro/en/articles/2022/1/ZELENIUC_Final.pdf

5. PAUL., B.G.,TIMAR, M.C.,ZELENIUC, O., LUNGULEASA, A.,COSEREANU, C.,(2019). Mechanical Properties and Formaldehyde Release of Particleboard Made with Lignin-Based Adhesives. Appl. Sci. 2021, 11, 8720. https://doi.org/10.3390/app11188720

6. ZELENIUC, O., DUMITRASCU A-E., CIOBANU, V.D.,2020. Properties Evaluation by Thickness and Type of Oriented Strand Boards Manufactured in Continuous Press Line. BioResources, 15(3), 5829-5842.

7. BRANDSTETTER, M, ZELENIUC,O, PEI,GH., CAMPEAN, M. 2020. Conversion Efficiency of Fir Roundwood into Sawlogs. BioResources 15(3), 5653-5665.

8. LUNGULEASA, A., SPIRCHEZ C, ZELENIUC, O. 2020. Evaluation of the calorific values of wastes from 3 some tropical wood species Maderas-Cienc Tecnol 22(3):2020 DOI:10.4067/S0718-221X2020005XXXXXX.

9. ZELENIUC, O., BRENCI, L., COSEREANU, C., & FOTIN, A. (2019). Influence of Adhesive Type and Content on the Properties of Particleboard Made from Sunflower Husks. BioResources, 14(3), 7316-7331.

10. ISPAS, M., COSEREANU, C., ZELENIUC, O., POROJAN, M. 2019. Flexural Properties of Blockboard Reinforced with Glass Fiber and Various Types of Fabrics. BioRes. 14(4), 9882-9892.

11. BRENCI, L-M., COSEREANU, C., ZELENIUC, O. GEORGESCU, S-V., FOTIN, A. 2018. Thermal Conductivity of Wood with ABS Waste Core Sandwich Composites Subject to Various Core Modifications, Bioresources 1, Vol13, No.1, pp 555-568. ISSN: 1930-2126.

12. ZELENIUC, O., BRENCI, L. SPIRCHEZ, C. 2017. Evaluation of Oriented Strand Board Behavior on Fire . PROLIGNO Journal Vol. 13 N° 4, in December 2017 , pp pp. 212-218, online ISSN 2069-7430. ISSN:1841-4737; indexat CABI, DOAJ, EBSCO.

13. ZELENIUC, O. 2016. Standards and regulations concerning the formaldehyde emissions from wood panels. Rev. Recent, vol 17, nr. 3(49), ISSN 2065-4529.

14. COSEREANU, C. BRENCI L, ZELENIUC, O, FOTIN, A. 2015. Effect of Particle Size and Geometry on the Performance of Single-layer and Three-layer Particleboard Made from Sunflower Seed Husks. BioResources 10(1). In press.

15. CIOBANU V., D., ZELENIUC, O., DUMITRASCU A-E, LEPADATESCU B, IANCU, B. 2014. The Influence of Speed and Press Factor on Oriented Strand Board Performance in Continuous Press. BioResources Vol 9 (4) : 6805-6816.

B2. ARTICOLE LA CONFERINTE INTERNATIONALE (selectie)

1. ZELENIUC, O. MATEIU, C. 2019. Furniture design in concept Lego. The 12th edition of the International Conference “Wood Science and Engineering in the Third Millennium” – ICWSE 2019 will be held in Brasov, Romania, from 07 – 09 November 2019.

2.. ZELENIUC, O. 2014. Considerations on the role of forest and wood products on global warming. Symposium Faculty of Silviculture and Forest Engineering „Forest and sustainable development” Brașov Romania 24-25 October 2014 CABI...

3. BADESCU L.A-M., ZELENIUC, O. URDEA, S. 2013. Formaldehyde Emission Modeling Depending on Plywood Thickness at Different Testing Temperatures. The 8th Internationsal Conference on Energy and Environment EE’2013, Rhodes Island, Greece - 16-19 July 201.pp.156-163.

4. ZELENIUC, O. 2012. *Short Term Surface Protection of Beech Sawn Timber during Storage.* In Proceedings of the Biennial International Symposium Forest and Sustainable Development. 19-20 October 2012.Transilvania University Press. ISSN 1843-505X. pp53-59

5. C. BREVETE

C1.2013: Adhesive composition based on ureo-formaldehyde resin in admixture with melamine-formaldehyde resin and technical lignin sulphate for making plywood. Nr. Brevet:RO125225-A2 ; RO125225-B1, 26 febr 2010/30 apr 2013. Patent UNIV BRASOV TRANSILVANIA (David, K I, Petrovici V, Urdea, S.N., Varodi, A., Zeleniuc, O.)

C2. 2012: Panel, has transverse strips, formed of linear blocks carried out from prismatic semifinished items, manufactured from branches by using ecological adhesive. Nr.Brevet: RO123471-B1/30 aug2012. Patent UNIV BRASOV TRANSILVANIA (Cionca, M.C, Gurau, L.,Olarescu, A., Zeleniuc, O.)

C3. 2012: Adhesive composition comprising furanic resin mixed with furfuryl alcohol in admixture with technical lignine sulphate Nr.Brevet:RO125023-A2; RO125023-B1, 30 noi 2009/30apr 2012. Patent UNIV BRASOV TRANSILVANIA (Petrovici, V., Varodi, A., Cazacu, G., Zeleniuc, O., Urdea, S., N., David, K I.)

C4. 2010: Modified process for setting the stable state of formaldehyde emission determined by the flask method in wood-based panels. Nr.Brevet: RO125796A2, 29 oct 2010. Patent UNIV BRASOV TRANSILVANIA ((Petrovici, V., Bădescu, L.A, Urdea, S.N, David, K.I, Zeleniuc, O., Sângeorzan, L.)

C5. 2019. Placa ecologică din deşeuri de floarea soarelui destinată placărilor exterioare, şi procedeu de obţinere. Nr.. Brevet. 130259, 30/07/2019- CBI A/00888/19.11.14 (BI RO 130259 A0) Rezumat publicat in BOPI 5/2015 (Coşereanu, C., Lica, D., Brenci, L., Fotin,A. Zeleniuc, O., Lunguleasa A., Budău G., Apostu, I.)

C6. 2019. Panou tristratificat din particule si coji de seminte de floarea soarelui pentru utilizari in interior, si procedeu de obtinere. Brevet de inventie nr. 130258 ; (Zeleniuc, O., Brenci, L., Cosereanu, C., Fotin, A. s.a)