

Date personale

Titlul didactic Conferentiar universitar
Titlul stiintific Doctor inginer
Data nasterii: 05 martie 1964, Brasov
Adresa locului de munca Brasov, str. Universitatii, nr. 1, corp L, sala LI15
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Studii si titluri

1978 - 1982 Liceul "Andrei Saguna", Brasov
1982 - 1987 Universitatea *TRANSILVANIA* din Brasov
Facultatea de Industria Lemnului
Programul de studii: Proiectarea mobilei si produselor finite din lemn
2004 Doctor in domeniul Stiinte Ingineresti, Universitatea Brunel/
Buckinghamshire Chilterns University College, UK, teză de doctorat
in domeniul rugozitatii suprafetelor prelucrate din lemn

Experienta profesionala

1987- 1990 Inginer, Fabrica de mobila, IPL Gheorgheni
1990 - 1996 Inginer, Fabrica de mobila "MAGURA" Codlea
1996-1998 Persoana fizica autorizata- proiectare mobilier
1998-2005 Asistent universitar, Universitatea *TRANSILVANIA* din Brasov,
Facultatea de Industria Lemnului
2005-2008 Sef de lucrari, Universitatea *TRANSILVANIA* din Brasov, Facultatea
de Industria Lemnului
2008 - prezent Conferentiar universitar, Universitatea *TRANSILVANIA* din Brasov,
Facultatea de Ingineria Lemnului

Publicații (selecție)

Teza de doctorat:

Gurau, L. 2004. The Roughness of Sanded Wood Surfaces. Doctoral thesis. Forest Products Research Centre. Buckinghamshire Chilterns University College. Brunel University, 400 pages

Articole ISI:

Gurau, L., Mansfield-Williams, H., Irle, M. (2005) Processing Roughness of Sanded Wood Surfaces. Holz als Roh und Werkstoff 63(1): 43-52

Gurau, L., Mansfield-Williams, H., Irle, M. (2006) Filtering the Roughness of a Sanded Wood Surface. Holz als Roh und Werkstoff 64(5): 363-371

Gurau, L., Mansfield-Williams, H., Irle, M. (2007). Separation of Processing Roughness from Anatomical Irregularities and Fuzziness to Evaluate the Effect of Grit Size on Sanded European Oak. Forest Products Journal 57(1-2): 110-116

Gurau, L., Cionca, M, Mansfield-Williams, H., Sawyer, G., Zeleniuc, O (2008) Comparison of the mechanical properties of branch and stem wood for three species. Wood and Fiber Science 40(4): 647-656

Gurau, L., Mansfield-Williams, H., Irle, M., Cionca, M. (2009). Form error removal of sanded wood surfaces. *European Journal of Wood and Wood Products (Holz als Roh und Werkstoff)* 67 (2): 219-227

Gurau, L., Cionca, M., Timar, C. and Olarescu, A. (2009). Compression strength of branch wood as alternative eco-material to stem wood. *Environmental Engineering and Management Journal* 8(4): 685-690

Timar, M.C., Beldean, E., Porojan, M. and **Gurau, L. (2009).** Field testing and microscopy-important tools for a realistic long-term evaluation of wood improvement treatments. *Environmental Engineering and Management Journal* 8(4): 669-678

Timar, M.C. **Gurau, L*.,** Porojan, M., Beldean, E. (2013). Microscopic identification of wood species. An important step in furniture conservation. *European Journal of Science and Theology* 9(4): 243-252

Gurau, L., Mansfield-Williams, H., Irle, M. (2013) The influence of measuring resolution on the subsequent roughness parameters of sanded wood surfaces. *European Journal of Wood and Wood Products (Holz als Roh und Werkstoff)* 71(1): 5-11

Gurau, L., Timar, M.C., Porojan, M., Ioras, F. (2013) Image processing method as a supporting tool for wood species identification. *Wood and Fibre Science*: 45(3): 1-11

Gurau, L., Mansfield-Williams, H., Irle, M. (2014). Convergence of the robust Gaussian regression filter applied to sanded wood surfaces. *Wood Science and Technology* 48(6): 1139-1154

Gurau, L., Csiha C., Mansfield-Williams, H. (2015). Processing roughness of sanded beech surfaces. *European Journal of Wood and Wood Products (Holz als Roh und Werkstoff)* 73(3): 395-398

Timar, M.C., Varodi, A., **Gurau L. (2016)** Comparative study of photodegradation of six wood species after short time UV exposure. *Wood Science and Technology* 50(1): 135-163

Carti in edituri nationale si internationale (selectie):

Gurau, L.(2007) Quantitative Evaluation of the Sanding Quality in Furniture Manufacturing. Ed. Univ. Transilvania, Brasov, pg. 266. ISBN 978-973-598-126-6.

Gurau, L., Mansfield-Williams, H., Irle, M. (2011) Evaluating the Roughness of Sanded Wood Surfaces. Book Chapter 6., 51 pages. In: *Wood Machining*. Edited by J. Paulo Davim, University of Aveiro, Portugal. ISBN: 9781848213159. May 2011, pp.288, Publishing house: ISTE-Wiley (UK). ISBN: 9781848213159

Gurau, L., Mansfield-Williams, H., Irle, M. (2012) A quantitative method to measure the surface roughness of sanded wood products. Book Chapter pp.1-23 In: *Wood and Wood Products. Series: Materials and Manufacturing Technology*, Edited by J. Paulo Davim, University of Aveiro, Portugal, pp 140., Publishing house: NOVA Science Publishers, Inc., Hauppauge, New York, USA. ISBN: 978-1-62081-973-9

Gurau, L. (2012) Tehnologii neconventionale in industria lemnului. Ed. Univ. Transilvania, Brasov, pg. 252. ISBN 978-606-19-0094-7

Reviste BDI (selectie):

Gurau, L., Mansfield-Williams, H., Irle, M- (2005). The Influence of Wood Anatomy on Evaluating the Roughness of Sanded Solid Wood. *IWSc-Journal of the Institute of Wood Science*.17-2 (issue 98), pg. 65-74. United Kingdom. ISSN: 0020-3203

Gurau, L., Mansfield-Williams, H., Irle, M. (2005). Qualitative and Quantitative Comparisons of Sanded Wood Roughness Measurements taken with Laser Triangulation and Stylus Scanning. *Roczniki Akademii Rolniczej w Poznaniu CCCLXVIII. Technologia Drewna.* 40: 181-192. Edited by: Wydawnictwo Akademii Rolniczej Im. Augusta Cieszkowskiego W Poznaniu. Poznan. PL ISSN 1506-4034.

Gurau, L, Cionca, M., Zeleniuc, O. (2006). Physical, Mechanical Properties and Chemical Composition of Branch Wood, as a Secondary Resource, Compared to Wood from Stem. *Bulletin of the Transilvania University of Brasov.* Vol.13 (48). Pp. 297-304, ISSN 1223-9631.

Gurau, L., Timar, M.C., Cionca, M, Olarescu, A. and Dumitrascu, R. (2010). An Objective Method to Analyse some Microscopic Characteristics of two Secondary Beech Wood Resources. *PRO Ligno* 6(1): 35-45. Online ISSN 2069-7430, ISSN-L 1841-4737.

Gurau, L., Campean, M., Olarescu, A., Porojan, M., Marton, N. (2012). The effect of the heat treatment of Sessile oak wood (*Quercus petraea* L) from young trees on the properties of panels with transversal grain. *PRO Ligno* 8(2): 53-67, Online ISSN 2069-7430, ISSN-L 1841-4737. Ed. Univ. Transilvania Brasov

Gurau, L., Irle, M., Mansfield-Williams, H. (2012). Minimising the computation time of using a Robust Gaussian Regression Filter on sanded wood surfaces. *PRO Ligno* 8(3): 3-11. Online ISSN 2069-7430, ISSN-L 1841-4737.

Gurau, L. (2013). Analysis of roughness of sanded oak and beech surfaces. *PRO Ligno* 9(4): 741-750, Online ISSN 2069-7430, ISSN-L 1841-4737.

Gurau, L. (2014). The influence of earlywood and latewood upon the processing roughness parameters at sanding. *PRO Ligno* 10(3): 26-33, Online ISSN 2069-7430, ISSN-L 1841-4737.

Gurau, L. (2015). Replacing outlying wood anatomy in the evaluation of processing roughness data at sanding. *PRO Ligno* 11(3): 11-20, Online ISSN 2069-7430, ISSN-L 1841-4737

Articole in ISI Proceedings (selectie):

Gurau, L., Mansfield-Williams, H. and Irle, M. 2002. An Analysis of Wood Surface Roughness Data. In: Frank C Beall (Ed): *Proc. of the 13th International Symposium on Nondestructive Testing of Wood.* 19-21 August 2002, Berkeley Campus. California, USA, pag.17-25. ISBN 1 892529 31 9 [ISI Proceedings].

Gurau, L, Cionca, M., Olarescu, A and Zeleniuc, O. 2008. New Method to Objectively Evaluate the Effect of Sanding on Wood Surfaces. In Proc of: *The First International Scientific Conference "Wood Processing and Furniture Production in South East and Central Europe: Innovation and Competitiveness 2008"*. June 25-27, 2008. Faculty of Forestry, Belgrade University. Belgrade, Serbia. ISBN 978-86-7299-149-9, pp.55-64, vol.1-[in ISI Web of Knowledge].

Brevete de inventii:

Cionca, M; Olarescu, A, **Gurau, L.** 2010. Eco-panels of cross texture made of branches of deciduous trees, method and process for making the same/ Eco-panouri cu textura transversala din crengi de foioase. *Metoda si procedeul de obtinere a acestora*". Patent.no: RO 125678-A2. Publication date:. Dervent primary accession number: 2010-M69346[65]. ISI Web of Knowledge.

Cionca, M., **Gurau, L.,** Olarescu, A., Zeleniuc, O. 2012. Panou si procedeul de obtinere a acestuia. *Brevet de inventie nr.123471_B1/ 30.08.2012.* Oficiul de stat pentru inventii si marci (Rezumat publicat în BOPI 8/2012 – Secțiunea Inventții).

Olarescu A., Cionca M.C., Badescu L.A., **Gurau L.**, Campean. 2013. Panel, which is obtained from timber cut from thin sessile oak trunks resulting from forestry thinning operations. Brevet de inventie nr. RO 128819-A0/ 30.09.2013. Derwent primary accession number: 2013-Q10140[78]. ISI Web of Knowledge

Indice Hirsch în Web of Science: 4

Contracte de cercetare / Granturi (selectie)

Programul/Proiectul	Funcția	Perioada
Proiect CNC SIS Tip A 450/2006: " Eco-conceptie si eco-tehnologie pentru mobilier si alte produse din lemn realizate prin modelarea, simularea si structurarea unui nou material obtinut din resurse naturale secundare "	membra	2006-2008
Proiect de cercetare international, nr. inreg.186/25.07.2006: " Thinking with Your Hands, Designing with Your Hands "	membra	2006-2007
Proiect PN2 IDEI: "Crearea si implementarea unei metodologii de cercetare stiintifica performanta privitoare la restaurarea-conservarea lemnului (mobilei) si ecodesign in viziunea dezvoltarii durabile"	membra	2009
Proiect PN2 IDEI Nr.146/2007: "Modele de testare a conditiilor de admisibilitate a proceselor si produselor din industria lemnului pe pietele europene, cu impact direct asupra calitatii mediului, in contextul dezvoltarii durabile "	membra	2007-2010

Specializări suplimentare

- programare in MathCad 2000 Professional –Marea Britanie, 2000 – 2003
- specializare in programare C++ BORLAND 5 –Marea Britanie 2002
- Certificat de competenta lingvistica in lb. engleza acordat de Centrul pt. invatarea limbilor moderne Universitatea Transilvania Brasov, 2008
- ISO 9000:2000 Lead Auditor Training Course (certificat no. A17110). BM TRADA, UK certificat de IQA-IRCA, 2008

Domenii de competență profesională

- Metrologia suprafetelor din lemn (calitatea suprafetelor prelucrate)
- Proprietatile lemnului (fizice, mecanice, acustice, termice, comportament la radiatii, etc)
- Microscopia lemnului
- Proiectarea si tehnologia mobilei
- Eco-design de mobilier si eco-tehnologii in industria lemnului

Alte activități

- Referent stiintific la reviste internationale:
 - *Wood Science and Technology*-Revista ISI. Journal of the International Academy of Wood Science ISSN 0043-7719
 - *Wood and Fiber Science*-Revista ISI. ISSN 0735-6161

- *European Journal of Wood and Wood Products* (Holz als Roh- und Werkstoff)-revista ISI, ISSN: 0018-3768 (print version), ISSN: 1436-736X (electronic version)
- *BioResources* Revista ISI. (<http://www.bioresourcesjournal.com>), Lucian A. Lucia and Martin A. Hubbe, Co-Editors. North Carolina State University, ISSN: 1930-2126
- *Journal of Adhesion Science and Technology*, revista ISI, ISSN 0169-4243 (Print), 1568-5616 (Online)
- *Wood Material Science and Engineering*, <http://www.tandfonline.com/toc/swoo20/current> ISSN: 1748-0272 (Print), 1748-0280 (Online), Indexata in Taylor & Francis
- Editor asociat la “*International Journal of Surface Engineering and interdisciplinary Materials Science*” (IJSEIMS)- (published semi-annually-IGI Global) DOI: 10.4018/IJSEIMS
- *The International Journal of Manufacturing, Materials, and Mechanical Engineering* (IJMMME)- (quarterly issued- IGI Global) DOI: 10.4018/IJMMME, ISSN: 2156-1680, EISSN: 2156-1672, indexata SCOPUS
- *Scientific Research and Essays*, www.academicjournals.org/SRE, Dr. N.J. Tonukari, Editor. ISSN 1992-2248, indexata in DOAJ
- *International Journal of Conservation Science*, revista ISI, <http://www.ijcs.uaic.ro/> , Print ISSN: 2067-533X; Online ISSN: 2067-8223, Ed: Ion Sandu
- *Bulletin of the Transilvania University of Brasov* , SERIES II-WOOD INDUSTRY , <http://webbut.unitbv.ro/Bulletin/> , ISSN 2065-2135 (Print), ISSN 2065-2143 (CD-ROM), Published by Transilvania University Press, Brasov, Romania, in SCOPUS
- *PRO LIGNO*, ONLINE ISSN 2069-7430; ISSN-L 1841-4737, indexata in EBSCO, CABI, Academic Search Complete, DOAJ
- Membra din 2004 in colectivul de redactie al revistei stiintifice PRO LIGNO aflata in bazele de date internationale EBSCO, CABI, Academic Search Complete, DOAJ, ISSN 1841-4737 (editor executiv din 2012)
- Prodecan cu cercetarea, informatizarea si internationalizarea (din mai 2012)
- Membra a Directiei 11 de cercetare Stiintifica la Institutul de Cercetare-Dezvoltare al Universitatii Transilvania din Brasov: “Eco-Design de Mobilier, Restaurare si Certificare in Industria Lemnului”
- Coordonator conferinte internationale ICWSE 2013 (7-9 noiembrie 2013) si ICWSE 2015 (5-7 noiembrie 2015)
- Membra CNADTCU (28.03.2011-6.09.2012), panel 2 „Inginerie industrială si management”
- Membra in Consiliul Cercetării Universitatii Transilvania din Brasov (din oct.2012)
- Membra in Consiliul Editurii Universitatii Transilvania din Brasov (din dec.2012)
- Coordonator departamental Socrates-Erasmus al facultatii (2004- mai 2012)
- Coordonator al programului de studii „Ingineria si Designul Produselor din Lemn” (din oct.2011)
- Coordonator discipline: „Tehnologii neconventionale in IL”, anul IV, program de licenta IPL; „Design de mobilier si elemente de ergonomie”, master EDMR anul I; „Noi tendinte in design”, master EDMR anul II, „Studiul proprietatilor lemnului”, anul II.

Limbi străine

Engleza-foarte bine

Conf.dr.ing. Lidia GURAU

23.03.2016