

## CURRICULUM VITAE

**Name:** Levente DÉNES

### **Education and training:**

Education:

1999-2002: Ph.D. studies, Wood Processing program, Faculty of Wood Industry, University of West Hungary, Sopron, tutor: Prof. Dr. Zsolt Kovács University of West Hungary, Faculty of Wood Sciences

1994-1997: Master of Wood Sciences, major in Wood Technology, Transylvania University of Brasov, Faculty of Wood Industry, Romania

1991-1994: Bachelor of Wood Sciences, major in Wood Technology, Transylvania University of Brasov, Faculty of Wood Industry, Romania

Trainings:

2005, Sopron: Application rapporteur, University of West Hungary, Faculty of Economics

1998, Cluj Napoca, Romania: ISO 9000 Quality Management systems, quality professionals training, Romanian Association for Quality

1995, Brasov: High efficiency Teams Organization, trainer: István Szakács, Dédász Co.

### **Qualifications:**

Wood Technologist

### **Degrees:**

Master of Science in Wood Engineering, 1997 Transylvania University of Brasov

Doctor of Philosophy in Material Sciences and Technologies, 2006 University of West Hungary

Title of PhD dissertation: Development of a new veneer based composite using the experimental design method

### **Languages spoken:**

English – fluent

Romanian – fluent

Hungarian – native

### **International field trips,- scholarships:**

08.15.2007.- 02.15.2008: Post Doctoral Fellow, West Virginia Univ., Divi. of Forestry & Natural Resources, USA

01.15.2007.-05.15.2007: Research Scholar, West Virginia University, Division of Forestry & Natural Resources, USA

02.28.2002.-07.02.2002: Research Challenge Grant Program: Veneer Strip Lumber (VSL), a new engineered wood product created from mill waste, West Virginia University, Division of Forestry & Natural Resources USA, supervisor: Dr. Láng Elemér, Associate Professor

### **Work experience:**

07.01.2009 – pres Director, Institute of Product Development and Manufacturing Technologies

08.16.2008 – 08.15.2009 Visiting Assistant Professor, West Virginia University, Division of Forestry & Natural Resources, USA

06.30.2008 - pres Associate Professor, Institute of Product Development and Technology, Faculty of Wood Sciences, University of West Hungary

01.01.2005 – pres: FAIMEI -Material and Product Testing Laboratory, Deputy Director, University of West Hungary

01.01.2005 – 30.06.2008 Assistant Professor, Institute of Product Development and Technology, Faculty of Wood Sciences, University of West Hungary

04.01.2004 – 12.31.2004 Assistant lecturer, Institute of Product Development and Technology, Faculty of Wood Sciences, University of West Hungary  
09.01.2002 – 03.31.2004 Graduate Research Assistant, Institute of Product Development and Technology, Faculty of Wood Sciences, University of West Hungary  
02.28.2002 – 07.02.2002 Research Assistant, Division of Forestry, West Virginia University, U.S.A.  
08.01.2001 – 11.30.2001 Quality Engineer, Swedwood Sopron Bútor Ltd., Sopron  
1997 – 1999 : Furniture Design Engineer, S.C. FAMOS S:A., -Furniture Manufacturing Company, Romania

### **Research fields:**

Include the statistical based product development, investigation on the use of statistical process control and experimental design methods in wood industry, applicability analysis and implementing of quality management and quality planning methods in furniture industry and other wood machining processes, investigation on decorative veneer waste recycling into new value added products, development of light weight composite core materials for interior and exterior applications using different foam-type resins, development of corrugated thin wood panels for new innovative hybrid composites used for structural applications, investigation on low quality wood utilization i.e. red heart beech, small dimension materials, less used species etc., non-destructive analysis of layered products, investigation on the effects of composite manufacturing parameters on the wood orthotropic properties.

### **Participation in Projects:**

Transforming Veneer-Mill Residues Into Value-Added Composites, Wood Utilization Program, WVU - Principal Investigator

Hybrid Structural Wood Composites Engineered From Underutilized Hardwood Species Combined With Reformulated Waste Materials, Wood Utilization Program, WVU - Principal Investigator

Regional Knowledge Centre of Forest and Wood Utilization ERFARET 2.1.4., Furniture utilization - Participant

HEFOP 3.3.1. Development of Industrial Design and Product Engineer educational BSc. program - Participant

GVOP 3.2.1. (KMA) Development and installation of a wood testing laboratory for wood structures tests - Participant

Veneer Strip Lumber (VSL), a new engineered wood product created from mill waste, Research Challenge Grant Program:, West Virginia University, Division of Forestry USA, supervisor: Dr. Láng Elemér, Associate Professor- Participant

Forest-Wood National Research and Development Project,

7.1 Subprogram: Solid wood furniture production for external use - Participant

7.2 Subprogram: Wood products development for internal use based on domestic raw materials - Participant

Hungarian Scientific Research Grant T-25985: Property design of composite panels for structural use based on the orthotropic characteristics of domestic hardwood species - Participant

### **Memberships**

Forest Products Society (FPS)

Society of Wood Science and Technology (SWST)

Scientists Association of Sopron

Hungarian Academy of Science, Public Body, Agricultural Sciences Section

Wood Industry Scientific Association (FATE)

Hungarian Engineering and Scientific Association from Transylvania, Wood Industry Section

**Other:**

COST Domain Committee member for Forests, their Products and Services, Wood Technology expert  
Management Committee member - COST Action E53: Quality Control for Wood and Wood Products,  
Management Committee member - COST Action E29: Innovative Timber and Composite Elements/  
Components for Buildings.

**List of major publications:**

1. Levente Dénes, Elemér M Láng, Julio F. Davalos, Bradley McGraw, 2009: *Engineered wood I-joist composites using corrugated web panels made of hardwood veneers*, Proceedings of the 43rd International Wood Composites Symposium March 31-April 1, 2009 Seattle, USA
2. Levente Dénes, Zsolt Kovács, Elemér M Láng, Bradley McGraw, 2008: *Investigation of the Compression and Bending Strength of Veneer-Polyurethane Foam Composites*, Proceedings of the 51st International Convention of Society of Wood Science and Technology November 10-12, 2008 Concepción, CHILE
3. Levente Dénes, László Bejő, Elemér Láng, Zsolt Kovács, 2006: The orthotropic dynamic modulus of elasticity of thick and thin veneers, and the effect of hot pressing, Proceedings of JSPS Japan and Hungary Research Cooperative Program / Joint Seminar, October 16-19, 2006 Institute of Wood Technology Akita Prefectural University Noshiro, Japan
4. Levente Dénes, Elemér Láng, Zsolt Kovács, 2006: Product development from veneer-mill residues: An application of the Taguchi's method, *Wood and Fiber Science* 38(1): 36-49 pp.
5. Elemer M. Lang, Levente Denes and Zsolt Kovacs, 2006: *Development of strand-type wood composites using statistical process control methods*, Proceedings of 14<sup>th</sup> International Conference on Composites/Nano Engineering, July 2-6, 2006, Boulder Colorado, USA
6. Levente Dénes, Elemér Láng, Zsolt Kovács, 2004: Innovative wood composites from veneer residues, Proceedings of the International Symposium on Advanced Timber and Timber-Composite Elements for Buildings, COST E29 Action, Florence
7. Ferenc Divós, Levente Dénes, Guillermo Iniguez, 2004: *Effect of cross-sectional change of a board specimen on stress wave velocity determination*. *Holzforschung* Vol. 59(2): 230-232 pp.
8. Dénes L., 2003: New product development with designed properties using the experimental design method, Proceedings of the Applied mechanics and mathematics – Hungarian Science Day 2003, Sopron
9. Dénes, L., 2003: Analysis of the flexural properties of sliced veneer waste composites using the experimental design method, Proceedings of the 4<sup>th</sup> International conference of PhD Students, Miskolc
10. Dénes, L., Kovács, Zs., 2003: Use of experimental design in new product development, Wood Industry, Sopron,

**Oral presentations:**

1. Levente Denes, Colin Dougherty, Elemer M. Lang, 2009: Improving Lumber Recovery of Low-Quality Hardwoods via Fingerjointing Technologies, Economic and Technical aspects on quality control for wood and wood products, COST E 53 Conference, Lisbon October 22- 23, 2009
2. Levente Dénes, 2008: *Hybrid structural wood composites engineered from reformulated waste material*, PhD Seminar Georg-August University, Faculty of Forestry and Forest Ecology, Goettingen, Germany
3. Levente Dénes, 2007: Engineering mechanical properties of wood composites by statistical methods PhD Seminar, West Virginia University, Division of Forestry and Natural Resources, Morgantown, USA

4. Levente Dénes, 2005: *Orthotropic behavior of sliced veneer changed by technological parameters*. International Conference of Hardwood Research and Utilization in Europe, New Challenges, 6 September 2005, University of West Hungary, Sopron.
5. Levente Dénes, Elemér Láng, Zsolt Kovács, 2004: *Innovative wood composites from veneer residues*. International Symposium on Advanced Timber and Timber-Composite Elements for Buildings, COST E29 Action, 27-29 October 2004, Florence.
6. Dénes L., 2004: *New hardwood composite development on a sliced veneer residue basis*. PhD seminar „New processes in the Forest Products Industry”, Georg August University, Faculty of Forestry and Forest Ecology, 13 January 2004, Goettingen.
7. Dénes L., 2003: *New hardwood composite development*. Issues of Hardwood Research and Utilization in Europe, International Conference, 25-26 September 2003, University of West Hungary, Sopron.
8. Dénes L., 2003: *Analysis of the Flexural Properties of Sliced Veneer Waste Composites using the Experimental Design Method*, 4<sup>th</sup> International Conference of PhD Students, 11-17 August 2003, Miskolc.

#### **Poster**

1. Levente Dénes, Elemér M Láng, Julio F. Davalos, Bradley McGraw, 2009: *Engineered wood I-joint composites using corrugated web panels made of hardwood veneers*, 43rd International Wood Composites Symposium March 31-April 1, 2009 Seattle, USA.
2. Levente Dénes, Zsolt Kovács, Elemér M Láng, Bradley McGraw, 2008: *Investigation of the Compression and Bending Strength of Veneer-Polyurethane Foam Composites*, 51st International Convention of Society of Wood Science and Technology November 10-12, 2008 Concepción, CHILE