

Benoît Belleville

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QUALIFICATIONS

Meticulous and autonomous professional skilled in wood sciences research and development. Articulate in communicating complex ideas to others, including international conventions and scientific publications. Professional activities include serving as a Research Professional and Graduate Student and publishing numerous project reports & papers. Intermediate to advanced knowledge of the Microsoft Office package as well as various statistical and engineering software. Intermediate knowledge of programming. Fluent in French and English with good knowledge of Spanish.

EDUCATION & HONORS

UNIVERSITÉ LAVAL, Faculty of Forestry, Geography and Geomatics, Department of Wood and Forest Sciences, Québec City, Québec, Canada.

Doctoral degree in Wood Sciences, 2008 - Present

~ Thesis: "Wood welding of Canadian hardwood species."

~ Director: Tatjana Stevanovic/Co-directors: Alain Cloutier & Antonio Pizzi

UNIVERSITÉ LAVAL, Faculty of Forestry, Geography and Geomatics, Department of Wood and Forest Sciences, Québec City, Québec, Canada.

Master of Science Degree in Wood Sciences, 2008

~ Thesis: "Wood-adhesive interface characterization and modeling in engineered wood flooring using the finite element methodology."

~ Director: Alain Cloutier/Co-director: Pierre Blanchet

UNIVERSITÉ LAVAL, Faculty of Forestry, Geography and Geomatics, Department of Wood and Forest Sciences, Québec City, Québec, Canada.

Bachelor in Wood Engineering, 2006

UNIVERSITÉ LAVAL, Department of Information and Communication, Québec City, Québec, Canada.

Certificate in Public Communication, 2001

~ *Awarded* the 2011 Student Award by the Industrial Forestry Council of Québec (Conseil de l'Industrie forestière du Québec, CIFQ) and 2011 Wood Week organizing committee, September 2011.

~ *Awarded an* Industrial Innovation Scholarship (IIS) from the Natural Sciences and Engineering Research Council of Canada (NSERC) and Fonds Québécois de Recherche sur la Nature et les Technologies (FQRNT), 2010-2012

~ *Awarded an* Industrial postgraduate scholarship (IPS) from the Natural Sciences and Engineering Research Council of Canada (NSERC), 2005-2007

PROFESSIONAL EXPERIENCE

UNIVERSITÉ HENRI-POINCARÉ, NANCY 1, École Nationale Supérieure des Technologies et Industries du Bois (ENSTIB), Laboratoire d'Études et de Recherches sur le Matériau Bois

(LERMAB), France, 2010

Advanced Internship

- Conduct research for a wood engineering research center specializing in applied and fundamental renewable resources research.
- Develop a research protocol.
- Collect & analyze data.
- Editorial of scientific paper.

UNIVERSITÉ HENRI-POINCARÉ, NANCY 1, École Nationale Supérieure des Technologies et Industries du Bois (ENSTIB), Laboratoire d'Études et de Recherches sur le Matériau Bois (LERMAB), France, 2009

Advanced Seminar

- Experimental characterization of wood behavior, analysis methods and challenges to overcome in commercializing wood biomass products.
- Collect & analyze data on thermochemical degradations of wood components, system security, quality and wood biomass project evaluation.

UNIVERSITÉ LAVAL, Faculty of Forestry, Geography and Geomatics, Department of Wood and Forest Sciences, Centre de recherche sur le bois, Université Laval, Québec city, Québec, Canada, 2007 - 2008

Professional Research

- Conduct research for a wood research center specializing in applied and fundamental research on wood, including wood conversion, wood utilization in innovative products and wood marketing.
- Collect & analyze a broad range of data based on external and internal tree characteristics.
- Editorial of scientific paper and technical research note.

UNIVERSIDAD DEL BÍO-BÍO, Departamento de Ingeniería en Maderas, Facultad de Ingeniería, Concepción, Chile, 2007

Advanced Internship

- Conduct research and laboratory trials as part of M.Sc. research.
- Collect & analyze data.
- Editorial of scientific paper and technical research note.

FPIInnovations - Wood Products Research Center, Sainte-Foy, Québec, Canada, 2004

Internship

- Conduct research for this wood research center specializing in technological transfer.
- Collect & analyze data.
- Editorial of industrial analysis and scientific paper.

RESEARCH PAPER PUBLICATIONS

Belleville, B., T. Stevanovic, A. Pizzi, A. Cloutier, and P. Blanchet. 2011. *Determination of optimal wood welding parameters for two North American hardwood species*. J. Adhes. Sci. Technol. (In Press).

Belleville, B., C. Segovia, A. Pizzi, T. Stevanovic, and A. Cloutier. 2011. *Wood blockboards fabricated by rotational dowel welding*. J. Adhes. Sci. Technol., 25: 2745-2753.

Belleville, B., A. Cloutier, and A. Achim. 2011. *Detection of red heartwood in paper birch (Betula papyrifera) using external stem characteristics*. Can. J. For. Res. 41: 1491-1499.

Belleville, B., A. Cloutier, and P. Blanchet. 2008. *Wood-adhesive interface characterization and modeling in engineered wood flooring using the finite element methodology*. Wood Fiber Sci. 40(4):484-494.

Blanchet, P., R. Beaugard and B. Belleville. 2008. *Prefinished oak flooring surface checking and physical properties*. For. Prod. J., 58(6):25-28.

TECHNICAL RESEARCH NOTES

Belleville, B., A. Achim, and A. Cloutier. 2008. *Analyse de la distribution et des sources d'initiation du coeur rouge à l'intérieur des tiges de bouleau blanc*. Technical Research Note No. 27, Centre de recherche sur le bois, Université Laval, Québec City, Québec, Canada, 2 p. [In French]

Belleville, B., P. Blanchet, C. Bustos, and A. Cloutier. 2008. *Caractérisation de l'interface bois-verniss dans les lames de plancher d'ingénierie*. Technical Research Note No. 21, Centre de recherche sur le bois, Université Laval, Québec City, Québec, Canada, 2 p. [In French]

CONFERENCE PRESENTATIONS

Belleville, B., T. Stevanovic, A. Cloutier, and A. Pizzi. 2011. *Production and properties of sustainable wood-welded panels from North American species*. 65th International Convention, Forest Products Society, June 19-21, 2011, Portland, OR, United States.

Belleville, B., A. Cloutier, A. Pizzi, and T. Stevanovic. 2010. *Éco-conception automatisée de panneaux lamellés-soudés à base de bois par friction rotationnelle*. Journée du Centre de recherche sur le bois, November 26, Université Laval, Québec City, Québec, Canada.

Belleville, B., D. Hotte, Y. Dessureault, A. Pizzi, A. Cloutier, and T. Stevanovic. 2010. *Éco-conception automatisée de panneaux lamellés-soudés à base de bois par friction rotationnelle*. Matériaux 2010, Fédération Française des Matériaux, October 18-22, Nantes, France.

Belleville, B., T. Stevanovic, A. Cloutier, and A. Pizzi. 2010. *Conception of sustainable wood-welded panels*. 64th International Convention, Forest Products Society, June 20-22, Madison, WI, United States.

Belleville, B., T. Stevanovic, A. Cloutier, and A. Pizzi. 2010. *Détermination des paramètres optimaux pour le soudage rotationnel d'essences canadiennes*. 78th ACFAS Convention, May 10-14, Montréal, Québec, Canada.

Belleville, B., A. Cloutier, and A. Achim. 2008. *Analyse de la distribution et des sources d'initiation du coeur rouge à l'intérieur des tiges de bouleau à papier*, Journée du CRB, November 28, Université Laval, Québec City, Québec, Canada.

Achim, A., G. Giroud, B. Belleville, and A. Cloutier. 2008. *Occurrence, proportion and vertical distribution of red heartwood in paper birch*. Connection between Forest Resources and Wood

Quality: Modelling Approaches and Simulation Software, 6th IUFRO 5.01.04 Workshop, June 8-14. Koli, Finland.

SCIENTIFIC POSTER PRESENTATIONS

Belleville, B., A. Cloutier, A. Pizzi, and T. Stevanovic. 2011. *Le soudage du bois: Une transformation du bois durable*. Journée du Centre de recherche sur le bois, November 25, Université Laval, Québec City, Québec, Canada.

Belleville B., M. Prado, M. Royer, A. Cloutier, A. Pizzi and T. Stevanovic. 2011. *Wood bonding without adhesives: a wood chemistry contribution*. Italic 6 - 6th Italian meeting of lignocellulosic chemistry, September 5-8. Tuscia University, Viterbo, Italy.

OTHER EXPERIENCES

Volunteer in the *Carrefour Forêt Innovations* 2011 as scientific representative for the *Centre de recherche sur le bois* newsstand, October 4-5.

Graduate students' representative on the Wood sciences program committee, Université Laval, 2009 - Present.

PROFESSIONAL AFFILIATIONS

Society of Wood Science and Technology
Forest Products Society

- References available on request. -