## Expert Search

Search Profiles

## Research Keywords

stream and riparian research
ecology climate change population demography wood science remote sensing genomics soil science forest management microbiology economics social science stand dynamics communications sustainability engineering communities and livelihoods wood physics and drying forest operations ecosystems aboriginal forestry modelling forest policy entomology wood products hydrology wood anatomy biotechnology ornithology international trade simulation wood technology business management wood durability biodiversity sampling design silviculture conservation forest measurements landscape ecology biometrics forest biology genetics landscape planning vertebrate ecology

# Simon C Ellis

*Associate Professor*
*Program Director, BSc – Wood Products Processing program*

**Research Interests:** wood anatomy, wood products

Contact Info
Teaching and Research
Publications

Department of Wood Science

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My current research interests are in the general area of wood quality. In particular I am interested in approaches and techniques used to determine wood quality, and determining the effects of silvicultural treatments on the resulting wood quality. I also have an interest in the application of image analysis techniques to wood anatomy and wood composites. I have an ongoing interest in projects involving wood identification. I am also committed to the development of teaching techniques in wood science and technology and seek to improve both my abilities and the quality of our undergraduate program in these areas.

## Unit Associations

Centre for Advanced Wood Processing CAWP

## Professional Affiliations

Fellow, Institute of Wood Science
Forest Products Society FPS
Society of Wood Science and Technology

## Awards

3M National Teaching Fellow 2013

## Current Courses

Winter 2013

**WOOD120 Introduction to Wood Products and Forest Management** Sections

Introduction to forestry, wood products industry, processes, products, markets and forest policy issues affecting the wood industry. Not available for credit to students in the B.S.F. degree.

Winter 2013

**WOOD280 Wood Anatomy and Identification** Sections

Introduction to tree growth; macroscopic and microscopic anatomy and identification of softwoods and hardwoods; descriptions of cell wall ultra-structure, wood variability and wood quality.

Winter 2013

**WOOD311 Co-operative Work Placement II** Sections

Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students in the Co-operative Education Program in Wood Products Processing.

Winter 2013

**WOOD310 Co-operative Work Placement** Sections

Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students in the Co-operative Education Program in Wood Products Processing.

Winter 2013

**WOOD400 Co-operative Work Placement** Sections

Approved and supervised work experience with a public or private organization for a minimum of 13 weeks fulltime. Final work term assignment required. Restricted to students in the Co-operative Education Program in Wood Products Processing.

Winter 2013

**WOOD412 Co-operative Work Placement V** Sections

Approved and supervised work experience with a public or private organization for minimum of 13 weeks full-time. Final work term assignment required. Restricted to students in the Co-operative Education Program in Wood Products Processing.

Winter 2013

**WOOD449C Directed Studies in Wood Products Processing - DIR ST WD PR PRC** Sections

In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in wood products processing.

Winter 2013

**WOOD493 Project in Program Major** Sections

A report (approved by a faculty supervisor and the Program Director) based on either a technical description of a study, an extension of the senior co-op report, a detailed literature review, a research-based project, or a guided independent study developed by the student.

Winter 2013

**WOOD475 Wood Properties, Identification and Uses** Sections

Elementary chemical, physical and mechanical properties of wood and their variations in relation to structure; identification by hand lens features; manufacture of lumber, pulp and composite wood products. Not available for credit

to Wood Products Processing students.

Winter 2013

**FRST449B Directed Studies in Forestry - DIRECTED STUDIES** Sections

In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in forestry.

## *Selected Publications*


*Sidhu, A. and S. Ellis.* (2007). **Evaluation of performance of phenol-melamine-formaldehyde resins for plywood.** – Forest Products Journal 57(10):58-63

*Wang, B., C. Dai and S. Ellis* (2006). **Veneer surface roughnes and compressibility pertaining to plywood/LVL manufacture. Part 1. Experimental investigation and implication.** – Wood and Fiber Science 38(3):535-545

*Wang, B., S. Ellis and C. Dai* (2006). **Veneeer surface roughness and compressibility pertaining toplywood/LVL manufacture. Part 2. Optimal panel densification.** – Wood and Fiber Science 38(4):727-735

*Ellis, S.C., R.A. Kozak, W. Spetic and P.D. Evans* (2006). **Human Resource Needs and Demand for Post-Secondary Education in the Canadian Secondary Wood Products Industry.** – Wood and Fiber Science 38(1):5-16.

*Wang, B., X. Zhou, C. Dai and S. Ellis.* (2006). **Air permeability of aspen veneer and glueline. Experimentation and implication. (accepted 2006)** – Holzforchung 60:304-312

*Ellis, S. and P. Steiner* (2002). **The behaviour of five wood species in compression** – Journal of the International Association of Wood Anatomists 23(2):201-211

*Ellis, S. and R.A. Kozak* (1999). **A New Model for Undergraduate Wood Processing Education – The B.Sc. in Wood Products Processing at the University of British Columbia.** – Proceedings of the Fourth International Conference on the Development of Wood Science, Wood Technology and Forestry, High Wycombe, England (Forest Products Research Centre / University of Sopron). Proceedings 270-274.

*Ellis, S.* (1998). **Mechanical properties of second-growth hemlock.** – Basic Wood Properties of Second-Growth Western Hemlock, Forintek Canada Corp. Special Publ. No. SP-38:44-49.

*Ellis, S.* (1997). **The effects of spray-drying parameters on some chemical and physical characteristics of powdered phenolformaldehyde resins.** – For. Prod. J. 46(9):69-75.

*Song, Dongjin and Simon Ellis.* (1997). **Localized properties in flakeboard: a simulation using stacked flakes.** – Wood & Fiber Science 29(4):353-363.

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