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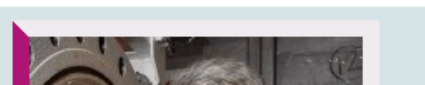
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## Expert Search

## Research Keywords

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[aboriginal forestry](#)  
[ecosystems](#) [plant physiology](#)  
[ecology](#) [wood technology](#)





## Dr. Stavros Avramidis

*Professor*

**Research Interests:** [wood physics and drying](#)

### [Contact Info](#)

[Teaching and Research](#)

[Publications](#)

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Research Areas:

- Wood-water relations and sorption thermodynamics
- Momentum, heat and mass transfer in wood
- Modeling steady-state and dynamic non-isothermal diffusion in wood
- Application of fractals and artificial neural networks to wood properties modeling
- Modeling drying stresses in wood and their effect on quality
- Industrial wood kiln drying optimization and development of new drying strategies
- Radio frequency vacuum (RFV) heating and drying of wood and wood products

## Research Areas

Wood physics

Wood drying

Non-destructive evaluation

Wood and energy

## Projects

**Modeling of wood thermo-sorptive behavior with artificial neural networks.**

**Development of timber drying quality prediction models.**

**Modeling drying stresses in timbers and logs.**

**Development of new methods to increase wood permeability.**

**Evaluation of post-drying treatments on timber quality.**

**RFV drying and heating of wood and wood products.**

**RF phytosanitation of wood**

<http://www.forestry.ubc.ca/2013/06/tune-in-to-clean-wood/>

**NDE evaluation of wet-pockets in hemlock using NIR technology**

**Superheated steam drying of western hemlock**

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## Unit Associations

[Centre for Advanced Wood Processing CAWP](#)

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## Professional Affiliations

American Society for Testing and Materials ASTM

[Fellow International Academy of Wood Science IAWS](#)

[Fellow, The Institute of Materials, Minerals and Mines](#)

[Forest Products Society FPS](#)

International Association of Wood Anatomists

Registered Professional Forester (EU)

[Society of Wood Science and Technology](#)

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## Current Graduate Students

**Mr. Mahdi Shahverdi, PhD**

*Wood drying modeling*

**Ms. Jingbo Shi, PhD**

*Modeling sorption hysteresis*

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## Current Courses

Summer 2013

**No WOOD course(s) were found for S2013 term.** Summer 2013

**No WOOD course(s) were found for S2013 term.** Summer 2013

**No FRST course(s) were found for S2013 term.**

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## Selected Publications

Iliadis, L., Tachos, S., Avramidis, S., Mansfield, S.D. (2013). **Hybrid e-Regression and validation soft computing techniques: the case of wood dielectric loss factor.** *Neurocomputing*. 107:33–39.

Lazarescu, C. and S. Avramidis (2012). **Heating characteristics of western hemlock in a high frequency field.** *European Journal of Wood and Wood Products*, 70: 489-496

Lazarescu, C., Bedeleian, B. and Avramidis S. (2012). **Heating characteristics of softwoods in a high frequency field** *ProLigno*, 8(4): 18-26.

Tekleyohannes, AT and S. Avramidis (2012). **Two-level System Dynamical Coarse-1 graining of Annual Rings -** *Wood Science and Technology*, 46(1-2): 473-485

Abubakari, A., Avramidis, S. and L. Oliveira (2012). **Impact of radio frequency heating pre-treatment on the kiln drying characteristics of sub-Alpine fir** *Journal of Wood and Wood Products*, 70: 245-251

Watanabe, K., Mansfield, S. and S. Avramidis (2012). **Wet-pocket classification in Abies lasiocarpa using visible and near infrared spectroscopy** *European Journal of Wood and Wood Products*, 70: 61-67

Watanabe, K., Lazarescu, Shida, S. and S. Avramidis. (2012). **A novel method of measuring moisture content distribution in timber during drying using CT scanning and image processing techniques** *Drying Technology* 30 (2): 256-262.

Hernandez, V., Avramidis, S. and Navarrete, J. (2012). **Albino strains of Ophiostoma spp. fungi effect on radiata pine permeability** *European Journal of Wood and Wood Products*, 70: 551-556.

Watanabe, K., Mansfield, S. D. and Avramidis, S. (2012). **Wet-pocket classification in Abies lasiocarpa using visible and near infrared (Vis-NIR) spectroscopy** *European Journal of Wood and Wood Products*. 70:61-67.

Torres, S.S., Jomaa, W, Puiggali, J-R., and S. Avramidis (2011). **Multiphysics modeling of vacuum drying of wood.** *Applied Mathematical Modeling Journal*, 35(20): 5006-5016

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Watanabe, K., Abubakari, A., Lazarescu, C. and S. Avramidis (2011). **Softwood heating in radio frequency fields.** -*European Journal of Wood and Wood Products*, 69: 295-301

Mansfield, S., Kang ,K-Y., Iliadis, L., Tachos, S., and S. Avramidis (2011). **Strength Prediction in Populus spp. Clones using Artificial Neural Networks and epsilon-regression Support Vector Machines** -*Holzforschung*, 65: 855-863

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Lazarescu, C. and S. Avramidis (2011). **Radio frequency heating kinetics of softwood logs** -*Drying Technology* 29 (6): 673-681

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Zhan, J and S. Avramidis (2011). **Mechano-sorptive creep of hemlock under conventional drying: I. The determination of free shrinkage strain** -*Drying Technology* 29(7): 789-796

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Zhan, J and S. Avramidis (2011). **Mechano-sorptive creep of hemlock under conventional drying: II. Description of actual creep behavior in drying lumber** -*Drying Technology* 29(10): 1140-1149

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Watanabe, K., Hart, J.F., Mansfield, S.D. and S. Avramidis (2010). **Near-infrared technology applications for quality control in wood processing.** -*In proceedings of COST Action E53 Conference, Edinburgh, UK*

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Watanabe, K., Hart, F., Mansfield, S.D. and Avramidis, S. (2010). **Detection of wet-pockets on the surface of Tsuga heterophylla (Raf.) Sarg. by near infrared (NIR) spectroscopy** *Holzforschung* 64:55-60

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Lazarescu, C., Watanabe, K. and S. Avramidis (2010). **Density and Moisture Profile Evolution during Timber Drying by CT-Scanning Measurements.** -*Drying Technology*, 28(4): 460-467

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Tekleyohannes, A, and S. Avramidis (2010). **Two-level self-organization of wood properties: a new paradigm for dimensional analysis and scaling.** -*Wood Science and Technology*, 44: 253-268

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Tanaka, T., Avramidis, S. and S. Shida. (2010). **A Preliminary Study on Ultrasonic Treatment Effect on Transverse Wood Permeability.** -*MADERAS Scientia y tecnologia*, 12(1): 3-9

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Watanabe, K., Saito, Y., Avramidis, S. and S Shida (2008). **Non-destructive measurement of moisture distribution in wood during drying using digital X-ray microscopy** -*Drying Technology*, 26(5): 590-595

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Rayirath, P., Avramidis, A., Mansfield, S. D. (2008). **The effect of wood drying on crystallinity and microfibril angle in black spruce (*Picea mariana*)** *Journal of Wood Chemistry and Technology*. 28: 167-179.

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Hart, F., Avramidis, S. and S.D. Mansfield (2008). **Detection of Wet-pockets in Hemlock Using Near Infrared Spectroscopy** -In proceedings, COST E53 Conference, Delft, Holland, 28-31 October, 105-113

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**during hot-pressing.** *Holz als und Werstoff.* 59:272-275.

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