

THE UNIVERSITY OF BRITISH COLUMBIA
Curriculum Vitae for Faculty Members

Date: January 2016

Initials: Σ.Α.

1. SURNAME: AVRAMIDIS **FIRST NAME:** Stavros

2. DEPARTMENT/SCHOOL: WOOD SCIENCE

3. FACULTY: FORESTRY

4. PRESENT RANK: Professor **SINCE:** July 1, 1998

5. POST-SECONDARY EDUCATION

University or Institution	Degree	Subject Area	Dates
Aristotelian University School of Forestry and Natural Environment, Thessaloniki, Greece.	B.S.F.	Forest Engineering and Management	1976-1981
State University of New York, College of Environmental Science & Forestry, Syracuse, N.Y.	M.S.	Environmental and Resource Engineering - Wood Products Engineering	1982-1983
State University of New York, College of Environmental Science & Forestry, Syracuse, N.Y.	Ph.D.	Environmental and Resource Engineering - Wood Physics	1983-1986

Special Professional Qualifications: Registered Professional Forester (Greece, European Union).

6. EMPLOYMENT RECORD

(a) Prior to coming to UBC

University, Company or Organization	Rank or Title	Dates
SUNY/College of Environmental Science and Forestry, Syracuse, N.Y., U.S.A.	Graduate Research Assistant	9/82-1/86
SUNY/College of Environmental Science and Forestry, Syracuse, N.Y., U.S.A.	Visiting Instructor	1/86-9/86

(b) At UBC

Rank or Title	Dates
Research Associate	10/86-9/87
Assistant Professor	9/87-7/93
Associate Professor	7/93 - 7/98
Professor	7/98 – 12/15
Professor and Head	1/16 - present

(c) *Outside UBC*

(d) *Date of granting of tenure at U.B.C.: July 1, 1994*

7. LEAVES OF ABSENCE

University, Company or Organization at which Leave was taken	Type of Leave	Dates
University of British Columbia	Leave of absence without pay, military service, PFC, logistics specialist, Greek Armed Forces.	10/1988 - 09/1990
University of British Columbia	Sabbatical leave	09/1997 - 09/1998
University of British Columbia	Sabbatical leave	09/2003 - 09/2004

8. TEACHING

(a) *Areas of special interest and accomplishments*

- **Wood Physics:** Developed new course in wood physics (WOOD 372) for undergraduate students.
- **Wood Drying:** Developed new wood drying undergraduate course (WOOD 482) examining current industrial drying methods for wood products.
- **Wood Drying and Preservation:** Developed the wood physics and drying component (80%) of the new Wood M Drying and Preservation course (WOOD 282) for the new wood products processing program of the department.
- **Wood-Fluid Relationships:** Developed new graduate course (FRST 573) covering the area of advanced wood physics.
- **Wood Physics and Mechanics:** Developed new graduate level course (physics part) for the Wood and Fiber Non-thesis one-year Masters program.

(b) *Courses Taught at UBC*

Session	Course Number	Scheduled Hours	Hours Taught			
			Lectures	Tutorials	Labs	Other
1988	WOOD 353	1 full week				Mill Site Visits
1994	WOOD 353	1 full week				
1986/87-1	WOOD 372	4 per week	2 per week		2 per week	
1987/88-1	WOOD 372	4 per week	2 per week		2 per week	
1988/89-1	WOOD 372	4 per week	2 per week		2 per week	
1989/90-1	WOOD 372	4 per week	2 per week		2 per week	
1990/91-1	WOOD 372	4 per week	2 per week		2 per week	
1991/92-1	WOOD 372	4 per week	2 per week		2 per week	
1991/92-2	WOOD 372	4 per week	2 per week		2 per week	
1992/93-2	WOOD 372	4 per week	2 per week		2 per week	
1993/94-2	WOOD 372	4 per week	2 per week		2 per week	
1994/95-2	WOOD 372	4 per week	2 per week		2 per week	
1991/92-1	WOOD 374	4 total	4			

1992/93-1	WOOD 374	4 total	4			
1993/94-1	WOOD 374	4 total	4			
1994/95-1	WOOD 374	4 total	4			
1987-2	WOOD 482	4 per week	2 per week		2 per week	
1988/89-2	WOOD 482	4 per week	2 per week		2 per week	
1991/92-2	WOOD 482	4 per week	2 per week		2 per week	
1992/93-2	WOOD 482	4 per week	2 per week		2 per week	
1993/94-2	WOOD 482	4 per week	2 per week		2 per week	
1994/95-2	WOOD 482	4 per week	2 per week		2 per week	
1995/96-1	WOOD 482	4 per week	2 per week		2 per week	
1991/92-1	FRST 573	4 per week	2 per week		2 per week	
1993/94-2	FRST 573	4 per week	2 per week		2 per week	
1994/95-1	FRST 573	4 per week	2 per week		2 per week	
1995/96-2	FRST 573	4 per week	2 per week		2 per week	
1997	FRST 573	5 per week	3 per week		2 per week	
1993/94-2	FRST 572	4 per week	2 per week		2 per week	
1991/92-1 &2	FRST 584	1 week				Seminar
1995/96-1 &2	FRST 584	2 per week				Seminar
1996/97-1 &2	FRST 584	2 per week				Seminar
1996	WOOD 282	5 per week	3 per week		2 per week	
1997	WOOD 282	5 per week	3 per week		2 per week	
1999	WOOD 282	5 per week	3 per week		2 per week	
1999	WOOD 487	5 per week	2 per week		3 per week	
1999	WOOD 475	7 per week	3 per week		4 per week	
1999	FRST 583	18 per week				compact
2000	WOOD 282	5 per week	3 per week		4 per week	
2000	FRST 475	3 per week	3 per week		4 per week	
2000	FRST 586	3 per week	3 per week		3 per week	
2001	WOOD 282	7 per week	3 per week		4 per week	
2002	WOOD 282	7 per week	3 per week	2 per week	2 per week	
2002	WOOD 464	6 per week	2 per week		4 per week	
2003	WOOD 282	7 per week	3 per week		4 per week	
2004	WOOD 282	3 weeks	3 weeks		3 weeks	compact
2004	FRST 573	3 weeks	3 weeks		3 weeks	compact
2004	WOOD 280	5 per week	3 per week		2 per week	
2005	WOOD 282	7 per week	3 per week		4 per week	
2005	FRST 573	6 per week	3 per week		3 per week	
2005	WOOD 244	5 per week	2 per week		3 per week	
2006	WOOD 282	7 per week	3 per week		4 per week	
2006	FRST 573	3 per week	3 per week			
2006	WOOD 244	5 per week	2 per week		3 per week	
2007	WOOD 282	7 per week	3 per week		4 per week	
2007	WOOD 244	7 per week	2 per week		3 per week	
2008	WOOD 282	7 per week	3 per week		4 per week	
2008	WOOD 284	5 per week	3 per week		2 per week	
2008	WOOD 244	5 per week	3 per week		2 per week	
2009	WOOD 282	7 per week	3 per week		4 per week	
2009	WOOD 284	5 per week	3 per week		2 per week	
2009	WOOD 244	5 per week	3 per week			
2009	WOOD 474	20 hrs total	4 hrs			
2010	WOOD 282	7 per week	3 per week		4 per week	

2010	WOOD 284	5 per week	3 per week		2 per week	
2010	WOOD244	5 per week	3 per week			
2010	WOOD 474	20 hrs total	4 hrs			
2011	WOOD 282	7 per week	3 per week		2 per week	
2011	WOOD 284	5 per week	3 per week		2 per week	
2011	WOOD 244	5 per week	3 per week			
2011	WOOD 474	20 hrs total	4 hrs			
2012	WOOD 282	5 per week	3 per week		2 per week	
2012	WOOD 284	5 per week	3 per week		2 per week	
2012	WOOD 244	5 per week	3 per week			
2012	WOOD 474	20 hrs total	4 hrs			
2013	WOOD 282	5 per week	3 per week		2 per week	
2013	WOOD 284	5 per week	3 per week		2 per week	
2013	WOOD 244	5 per week	3 per week			
2014	WOOD 282	5 per week	3 per week		2 per week	
2014	WOOD 244	5 per week	3 per week		2 per week	
2014	WOOD 384	6 per week	4 per week		2 per week	
2014	WOOD 474	2 per week	2 per week			
2015	WOOD 282	5 per week	3 per week		2 per week	
2015	WOOD 244	5 per week	3 per week		2 per week	
2015	WOOD 384	6 per week	4 per week		2 per week	
2015	WOOD 474	2 per week	2 per week			
2016	WOOD 282	5 per week	3 per week		2 per week	

(c) Graduate Students Supervised*

Student Name	Program Type	Year		Principal Supervisor	Co-Supervisor(s)
		Start	Finish		
Joel Dubois	M.F.	1988	1991	S. Avramidis	
Ian Hartley	Ph.D.	1991	1994	S. Avramidis	
Min Li	M.Sc.	1994	1996	S. Avramidis	
Jianxiong Lu	Ph.D.	1993	1997	S. Avramidis	
Bingning Zhou	M.Sc.	1995	1997	S. Avramidis	
Kuihua Fan	Ph.D.	1995	1997 W	S. Avramidis	
Hao Wang	M.Sc.	1997	1997 W	S. Avramidis	
Qiufang Tian	M.Sc.	1996	1997 W	S. Avramidis	
Sun-guo Wang	M.Sc.	1996	2000	S. Avramidis/F. Lam	
Yuxian An	M.Sc.	1996	2000	J. Ruddick	S. Avramidis
Bingye Hao	Ph.D.	1996	2001	S. Avramidis	
John Wallace	M.Sc.	1998	2001	S. Avramidis	
Tasos Koumoutsakos	Ph.D.	1997	2001	S. Avramidis	
Pablo Garcia	Ph.D.	1995	2002	S. Avramidis	
Guangqi Chen	M.Sc.	1996	2002	S. Avramidis/F. Lam	
Kuuku Sackey	M.Sc.	2001	2003	S. Avramidis	
Nobutaka Nakamura	Ph.D.	2002	2002W	S. Avramidis	
Slobodan Bradic	M.Sc.	2003	2006	S. Avramidis	
Jian Yan	Ph.D.	2003	2004W	S. Avramidis	
Katrin Rohrbach	M.Sc.	2004	2008	S. Avramidis	
Prasad Rayirath	M.Sc.	2004	2009	S. Avramidis	

Ciprian Lazarescu	Ph.D.	2005	2009	S. Avramidis	
Anteneh Tekleyohannes	Ph.D.	2005	2010	S. Avramidis	
Alhassan Abubakari	M.Sc.	2008	2010	S. Avramidis	
Ning Guo	Ph.D.	2009	2010W	S. Avramidis	
Dallin Brooks	Ph.D.	2009	LOA	S. Avramidis	
Bogdan Bedelian	Ph.D.	2010	2011W	S. Avramidis	
Nohara Wada	M.Sc.	2010	2013	S. Avramidis	
Jingbo Shi	Ph.D.	2012		S. Avramidis	
Mahdi Shahverdi	Ph.D.	2013	2015	S. Avramidis	
Sepideh Nurian	Ph.D.	2015		S. Avramidis	
Zongying Fu	Ph. D.	2015		S. Avramidis	

(d) Supervised Post-Doctoral Fellows

- Dr. Jing Liu , (Ph.D. in Wood Science & Technology), *Hemlock brown stain* project, 2/1992-3/1993.
- Dr. Fang Liu, (Ph.D. in Chemical Engineering) *Radio-frequency/vacuum drying* project, 5/1992-5/1993.
- Dr. Chun Zhang, (Ph.D. in Wood Science & Technology). *The effect of pre-steaming on drying quality of thick pacific coast hemlock project.* 12/1992-5/1993.
- Dr. Lin Zhang, (Ph.D. in Engineering). *Fundamentals of heat and mass transfer in radio-frequency/vacuum drying of wood.* 1/1995-3/1996.
- Dr. Liping Cai, (Ph.D. in Wood Science). *Modeling of RF/V drying of wood.* 3/1996-3/1998.
- Dr. Azzeddine Oudjehane, (Ph.D. in Engineering Mechanics). *Manipulation of wood composite structure to enhance performance.* 2/1996 - 12/1998 (Dr. F. Lam co-supervisor).
- Dr. Diego Elustondo (Ph.D. in Chemical Engineering). *Stochastic wood drying modeling.* 04/2001 – 07/2004
- Dr. Bingye Hao (Ph.D. in Wood Science). *Advanced Lumber Sorting for Stability (ALSOS).* 05/0202 – 05/2005.
- Dr. Hongwei Wu (Ph.D. in Chemical Engineering). *Timber Drying Prediction Quality Model Development.* 09/2004 – 04/2006.
- Dr. Ken Watanabe, (Ph.D. in Wood Physics). *NIR moisture monitoring of wood.* 08/2008 –09/2010.
- Dr. Ciprian Lazarescu, (Ph.D. in Wood Drying). *RF pasteurization of wood.* 09/2009 – 11/2012.
- Dr. Kosmas Panayotidis, (Ph.D. in Chemical Engineering). *NIR evaluation of wood.* 11/2011-11/2012.
- Dr. Amir Sohi, (Ph.D. Wood & Paper Science). *NDE evaluation of wood.* 11/2014 – 11/2016.
- Dr. Magnus Fredriksson (Ph.D. Wood Science) *CT scanning of logs for sawmilling optimization.* 1/2016 – 7/2016.

(e) Supervised Research Engineers:

- Dr. Fang Liu, (Ph.D. in Chemical Engineering). *Modeling of radio-frequency/vacuum drying of wood.* 5/93-10/94.
- Dr. Anastasios Koumoutsakos, (Ph.D. in Wood Science). *Wood drying.* 5/01 – 05/03.

(f) Supervised Visiting Scholars/Professors:

- Dr. Ho-Yang Kang, Associate Professor, Chungnam National University, Korea, Jan. 9, 1995 - Feb. 9, 1995. Research in the area of wood drying.
- Dr. Ali A. Enayati, Assistant Professor, Gorgan University of Agricultural Sciences and Natural Resources. Nov. 10, 1994 - Sept. 17, 1995. Research in the area of wood physics.
- Dr. Shigehiko Suzuki, Associate Professor, Shizuoka University, Japan. Nov. 1, 1995 - Aug. 31, 1996. Research in the area of wood physics and composites.
- Dr. Satoshi Shida, Associate Professor, University of Tokyo, Japan, May 2002 – January 2003. Research in the area of wood drying.

- Mr. Carlos Rozas, Assistant Professor, University of Bio Bio, Chile, March 2003 – December 2003. Research in the area of wood drying.
- Dr. Liyu Wang, Associate Professor, School of Technology, Beijing Forestry University, P.R.China. January 2007 – January 2008. Research in the area of wood physics.
- Mr. Takashi Tanaka, Researcher, University of Tokyo, Japan, 09/2007 – 09/2008. Research in the area of Wood Physics.
- Mr. Nohara Wada, Researcher, University of Tokyo, Japan, 09/2009 – 01/2010. Research in the area of Wood Physics.
- Dr. Jianfeng Zhan, Associate Professor, Northeast Forestry Univ, China, June 2009 – June 2010. Research in the area of wood physics/drying.

(g) Other Graduate Supervising Committees:

- F. Mongure, 1988, M.Sc., Wood Science, Supervising Committee member.
- M. Ngura, 1988, M.Sc., Wood Science, Supervising Committee member.
- F. Lam, 1992, Ph.D., Wood Science, Supervising Committee member.
- C. D. Araujo, 1993, Ph.D., Physics, Supervising Committee member.
- C. Dai, 1994, Ph.D., Wood Science, Supervising Committee member.
- D. Liliefna, 1994, M.Sc., Wood Science, Supervising Committee member.
- Y. Feng, 1994, M.Sc., Wood Science, Supervising Committee member.
- M. Nashad, 1994, Ph.D., Wood Science, Supervising Committee member.
- D. Song, 1995, M.Sc., Wood Science, Supervising Committee member.
- J. Shen, 1996, Ph.D., Mechanical Engineering, Supervising Committee member.
- P. W. C. Lau, 1996, Ph.D., Wood Science, Supervising Committee member.
- H. Yee, 1996, M.Sc., Wood Science, Supervising Committee member.
- R. Liu, 1997, Ph.D., Wood Science. Supervising Committee member.
- K. Wang, 1998, M.Sc., Wood Science. Supervising Committee member.
- H. Saboksayr, 1998, Ph.D. Wood Science. Supervising Committee member.
- D. Liliefna, 1998, Wood Science, Ph.D. Supervising Committee member.
- F. Fang, 1999, M.Sc., Wood Science, Supervising Committee member.
- C. Ristea, M.Sc., 2001, Wood Science. Supervising Committee member.
- K. Woo. M.Sc., 2003, Wood Science. Supervising Committee member
- P. Alexiadis, M.Sc. 2003, Wood Science. Supervising Committee member.
- B. Wang, Ph.D. 2005 Wood Science. Supervising Committee member.
- K-J Henze, M.Sc. 2007 Wood Science, Supervising Committee member.
- Baekyong (Daniel) Choi, M.Sc. 2008, Wood Science, Supervising Committee member.
- E. Sackey, Ph.D. 2009, Wood Science, Supervising Committee member.
- Ricky Ratu, M.Sc. 2010, Wood Science, Supervising Committee member.
- Arash Jamali, Ph.D. 2011, Wood Science, Supervising Committee member.
- Cheng Zhou, Ph.D. in progress, Wood Science, Supervising Committee member.
- Chao Zhang, M.Sc., in progress, Wood Science, Supervising Committee member.
- Siti Hazneza Abdul Hamid, Ph.D. in progress, Wood Science, Supervising Committee member.
- FrancisRaiche De Araujo, M.Sc, 2013, Wood Science, Supervising Committee member
- Foster Heart, M.Sc.,2012, Wood Science, Supervising Committee member
- Xiao He, Ph.D., in progress, Chemical and Biological Engineering, Supervising Committee member.
- Yuan Li, Ph.D. in progress, Wood Science, Committee member.

(h) University Examiner for Thesis Defenses:

- Cheol Jeong, Ph.D. exam, Wood Science, 1994.
- Bernhard Kreber, Ph.D. exam, Wood Science, 1995.
- Michael Dean Kester, Ph.D. exam Analytical Chem./Pulp & Paper, 1995
- Willson Lau, Ph.D. exam, Wood Science, 2000

- Xiao Jiang, Ph.D. exam, Wood Science, 2000
- Dominggus Yawalata, Ph.D. exam, Wood Science, 2001
- Alfonsius B. Ariawan, Ph.D. exam, Chemical Engineering, 2001
- James F. Lefort, M.Sc. exam, Food Science, 2001.
- Charles Gyamfi, M.Sc. exam, Wood Science, 2001
- Zoran Milandinovic, M.Sc. exam, Food Science, 2005
- Jung-Pyo Hong, Ph.D. exam, Wood Science, 2007
- Darell C. Wong, Ph.D. exam, Mechanical Engineering, 2007
- Thomas Lim, Ph.D. comprehensive exam, Wood Science, 2011
- Nayef Masned Al-Saifi, Ph.D. exam, Chemical Engineering, Oct. 2011
- Calvin Patrick Hilde, M.Sc. exam, Mathematical, Computer and Physical Sciences, University of Northern BC, April 2012.
- Mahmood Ebadian, Ph.D. exam, Wood Science, April 2013
- Hassan Sharifi, Ph.D. exam, Chemical and Biological Engineering, October 2014.
- Md. Saimoom Ferdous, M.Sc. exam, Electrical Engineering, January 2015.

(i) Continuing Education Activities:

Wood and Wood Products. Understanding materials: An executive overview. Gave a 45-minute presentation to industry audience at a one-day workshop sponsored by Industry, Science and Technology Canada and the UBC Department of Metals and Materials Engineering. February 19, 1993. Vancouver, B.C.

(j) Visiting Lecturer (indicate university/organization and dates):

- Forest Research Institute, Rotorua, New Zealand, May 1997.
- CSIRO Forest Products Lab, Melbourne, Australia, May 1997.
- CIRAD, Montpellier, France, April 1998.
- Technological Educational Institute, Drama, Greece, March 1998.
- Forest and Forest Products Research Institute of Japan, October 1999.

(k) Chairman of Theses Examinations:

- Hon Yee, M.A.Sc. Thesis Exam, 12/1995.
- Robert Gooding, Ph.D. Thesis Exam, 3/1996.
- Ming He, M.A.Sc. Thesis Exam, 3/1997.
- Chris Timusk, M.Sc. Thesis Exam, 4/1997.
- Ming He, Ph.D. Comprehensive exam, 2/1999.
- Kevin Toshio Chow, Ph.D. final oral exam, 12/1999.
- Maria Marinescu, M.Sc. defence, 3/2000.
- Madoka Gray-Mitsumune, Ph.D. final oral exam, 12/2000.
- Tim Caldecott, M.Sc., final oral exam, 12/2001.
- Barbara Dalpke, Ph.D. final oral exam, 03/2002.
- Jeff Keating, Ph.D. comprehensive exam, 05/2002.
- Philippe Tanguay, Ph.D. comprehensive exam, 11/2002.
- Alexander C. Schreyer, M.A.Sc. final oral exam, 11/2002.
- Xueyuan Zhang, M.Sc., final oral exam, 07/2003.
- Xian Jun Zhuang, M.Sc. final oral exam, 09/2004
- Jackie Steward, M.Sc. final oral exam, 04/2005
- Nicholas Karl Ukrainetz. M.Sc. final oral exam, 02/2006
- Daniel Schmidt, M.Sc. thesis defense, 09/2006

- Russell Chedgy, M.Sc. thesis defense, 09/2006
- Reza Korehei, M.Sc. thesis defense, 09/2007
- Asoka Mendis, Ph.D. final oral exam, 09/2007
- Horatiu Rus, Ph.D. final oral exam, Economics, 06/2009
- Matthias von dem Knesebeck, Ph.D. final oral exam Electrical Engineering, 09/2010
- Stephan Vollmer, M.Sc. final oral exam, 03/2011
- Cameron N. Carlyle, Ph.D. final oral exam, Botany, 04/2012
- Kent Chen, M.Sc., final oral exam, 11/2012.
- Di Xu, Ph.D. final oral exam, 2/2013
- Song Cai, Ph.D. final oral exam, 5/2014.
- Jose Centeno, Ph.D. final oral exam, 2/2015.

(l) Supervised undergraduate directed studies in forestry:

- Barry M. O'Brien. 1988. A review of dehumidification lumber drying.
- Parminder Kaila. 1991. Performance study of the effector proximity capacitive sensor.
- John Mohammed. 1991. Slippage in core paper for a coastal mill: a case study.
- Joel Dubois. 1992. Computer-scanning measurement of the macroporosity of Parallam parallel strand lumber.
- Jeff Grimshire. 1993. Stress development in wood during kiln drying.
- etc....

(m) Supervised graduating essays and technical reports:

- Edwin Chiu. 1987. The analysis of the transition age between the juvenile wood and the mature wood of Jack pine and black spruce through the study of longitudinal shrinkage.
- Alvin Poon. 1990. An investigation of the water permeance of five chemical sealants.
- Martin Steele. 1993. The problems associated with kiln drying balsam.
- David Tang. 1996. The effect of ultrasonic vibrations and freezing on wood drying characteristics.
- Faculty Reviewer of Graduating Theses for the Wood Products Processing program on an annual basis since 1998.
- etc....

(n) Supervised departmental B.Sc. theses:

- Keith Iwasaki. 1995. Moisture content distribution in radio frequency/vacuum dried lumber.
- Eric Seewald. 1995. The determination of the specific heat of western red cedar at different moisture contents.
- Todd Stojcic. 1996. The effect of wood pre-freezing on its drying characteristics.

1998	Ewing	Laura	Evaluation of Moisture Meter Performance on Dry Frozen Lumber
1998	Shen	Hsueh	Solid Wood Edge-Glued Panels
1999	Meiklem	Elissa	
1999	Westlund	Doug	
1999	Kraljevic	Carla	
2000	Lam	Jenny	The Feasibility Analysis of Radio Frequency Vacuum Drying
2000	Player	Jaclyn	Vacuum Kilns Versus Conventional Kiln
2000	Woo	Jane	Analysis of Log Grade Input and Product Output Relationship of a Sawmill
2001	Derkach	Adam	Kiln drying

2001	Litman	Iulia	Finishing Wood
2002	Wagsatff	Warren	How to Minimize Time for Air Drying SPF Lumber While Maintaining Quality
2002	Aquino	Carlos	Wood Finishing
2004	Dylke	Dean	Radio-frequency / chain of custody
2004	Long	Jordan	Pressing parameters for Various Composite Wood Panels
2005	Scholte	Dava	Moisture content targets
2006	Broschart	Jean-Michel	Utilization of Douglas-Fir and Hemlock Material for the Value-Added Market
2006	Vandergriendt	Eric	Strength grading and its influence on yield and value
2007	Dhaliwal	Jatinder	The influence of the rising dollar on the Canadian manufacturing industry, and its affect on the wood products producers
2007	Hsieh	David	Engineered wood products
2007	Ortner	Kevin	Introducing Lean Manufacturing in a Wood Processing Facility
2008	Nordman	Brock	Australian secondary manufacturing operations
2008	Huang	Yi	China Earthquake Provides Opportunities for Canadian Wood Frame Construction
2008	Faireclough	Duncan	New machinery and technologies (vacuum kilns, log scanning systems)
2008	Hoang	David	Roasted Hardwoods: 'Green' Value-Added Products Through Specialized Drying
2010	Hole	Blair	Surfboards - foam vs. wood comparisons (material properties, LCA)
2010	Nie	Xin	Parallam: A comprehensive review
2011	Ukpabi	Houston	PRE-SORTING STRATEGIES: SUB-ALPINE FIR INDUSTRIAL TRIAL
2011	Xin	Zhao	THE USING OF CANADIAN WOOD IN CHINESE BUILDING INDUSTRY
2012	Ross	Addison	Acoustical properties of wood
2012	Vukasovic	Fabian	Impacts of quality control systems in the primary industry: A focus on size control
2013	Chen	Albert	Heat treated wood (with prof. Evans)
2013	Firoozmand	Moham mad	The impact of sanding grit size on color consistency of different wood species used in Canadian furniture manufacturing – a visual inspection (with prof. Evans)

(o) Reader for non-departmental B.Sc. theses:

- Tony H.S. Ser. 1993. NMR techniques for the study of water distribution in hemlock sapwood. B.Sc. Thesis in Physics.
- Raphael Li-Kuo Chan. 1994. Proton Nuclear Resonance studies of the temperature dependence of the fiber saturation point of the heartwood and sapwood of cedar and hemlock. B.Sc. Thesis in Physics.
- Kesten Broughton. 1997. Obtaining wood cell radius and local specific gravity maps using MRI. B.Sc. Honours Thesis in Physics.

(p) Supervised Post-Graduate Directed Studies:

- Joel Dubois. 1989. Design of a temperature acquisition system to be used in the kiln drying of lumber.
- Joel Dubois. 1990. Fuel value of mill residues processed on the B.C. coast.

- Frank Lam. 1991. The effect of ultrasonic vibrations on convective heat transfer between water and wood cylinders.
- Peter Lau. 1991. Thermal conductivity and diffusivity of sawdust - a pilot study.
- Jianxiong Lu. 1993. The effect of RF/V drying on the permeability characteristics of wood.
- Jianxiong Lu, 1994. Effect of nuclear radiation on the physical and mechanical properties of wood.
- Avtar Sidhu. 1994. Specific heat of wood at moisture contents above the fiber saturation point.
- Bingning Zhou. 1995. Dielectric heating of wood.
- Pablo Garcia. 1995. Hot-pressing of particleboards and fiberboards: density and transfer phenomena.
- Bingning Zhou. 1996. Effect of ultrasonic vibrations on the drying rate of wood.
- Kuihua Fan. 1996. Modeling of heat and mass transfer in wood drying.
- Bingye Hao. 1996. Moisture sorption characteristics of five BC softwoods.
- Kester Broughton, 1996, Obtaining cell radius and local specific gravity maps using MRI, Physics Department.
- Guangqi Chen. 1997. Modeling of the properties of particleboard.
- John Wallace, 1998. Drying problems and current drying practices of pacific costs hemlock.
- John Wallace, 1999. Impact of airflow on hem-fir drying.
- Kuuku Sackey, 2002. The effect of freezing and acoustical pre-treatments on the drying characteristics of wood.
- Katrin Rohrbach, 2004. Various methods of moisture content measurement in comparison.
- Slobodan Bradic, 2004. Longitudinal air permeability of wood with beetle transmitted blue-stain.
- *continuously every year until present*

(q) Reader/Examiner Major Essays for Non-thesis Master's:

- Catherine Edgar, Wood Science non-thesis M.Sc., FRST548, "A discussion on the chirality of cellulose", 1997.

(r) External Examiner for non-UBC Ph.D. Theses:

- Din Muhammad Zahid. Ph.D. thesis, Faculty of Forestry, University of Agriculture, Faisalabad, Pakistan, 2001.
- Karnita Yuniarti, Ph.D. thesis, School of Ecosystem and Forest Science, The University of Melbourne, Australia, 2015

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) Areas of special interest and accomplishments:

- Wood-water relationships - moisture sorption thermodynamics.
- Modeling of heat and mass transfer in porous materials.
- Isothermal and nonisothermal diffusion of moisture in porous materials.
- Fluid flow in wood – improving penetration of fluids.
- Development of new strategies to optimize convective drying of wood.
- Radio-frequency/vacuum drying of wood.
- Application of RF heating technology to wood and biopolymer processing.
- Improving lumber stability in kiln drying.

(b) Research or equivalent grants (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC)):

Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
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UBC-NSERC Equipment	Fundamental Kinetic Studies of Fluids	(C)	\$12,000	1988	S. Avramidis	
NSERC Operating	Sorption Kinetics of Chloropicrin in Wood	(C)	\$12,000 \$12,000	1988 1990	S. Avramidis	
BC Science Council	Dielectric Properties of some BC Softwoods	(C)	\$39,840	1991	S. Avramidis	
BC Science Council	Brown Stain in Pacific Coast Hemlock	(C)	\$58,197,	1992	S. Avramidis	S. Ellis
Council of Forest Industries	Radio Frequency/Vacuum Drying of Wood	(C)	\$42,700 \$42,700 \$42,700	1992 1993 1994	S. Avramidis	
NSERC Operating	Moisture Sorption Studies in Wood	(C)	\$15,000 \$15,000 \$15,000	1993 1994 1995	S. Avramidis	
Council of Forest Industries	Radio-Frequency/Vacuum Dryer	(C)	\$114,500	1993	S. Avramidis	
BC Science Council	NMR Studies of Water in Wood	(C)	\$17,000 \$17,000	1993 1994	S. Avramidis	
MacMillan Bloedel Research	Nuclear Magnetic Resonance Investigation of Water Interaction in Wood	(C)	\$2,500 \$2,500	1993 1994	S. Avramidis	
BC Science Council	The Effect of Presteaming on Drying Quality of Thick Pacific Coast Hemlock	(C)	\$36,173	1993	S. Avramidis	
Council of Forest Industries	Modeling of Radio-Frequency/Vacuum Drying of Wood	(C)	\$35,327 \$35,327	1993 1994	S. Avramidis	
NSERC Equipment	Environmental Conditioning Chamber	(C)	\$24,922	1994	S. Avramidis	
NSERC Strategic	Fundamentals of coupled heat and mass transfer in radio-frequency/vacuum drying of wood	(C)	\$86,698 \$91,878 \$82,387	1995 1996 1997	S. Avramidis	
NSERC Strategic Grant	Manipulation of wood composite structure to enhance performance	(C)	\$78,650 \$88,500 \$78,150	1995 1996 1997	S. Avramidis	F. Lam
NSERC Strategic Equipment	Robot system for wood mat formation	(C)	\$53,130	1995	S. Avramidis	F. Lam
UBC	Equipment Matching Program	(C)	\$9,194	1995	S. Avramidis	
BC/ASI-NSERC Collaborative R&D	Modeling industrial radio frequency drying of wood	(C)	\$37,500 \$47,500	1996 1997	S. Avramidis	
HeatWave Drying Systems	A pre-commercial assessment on the viability of RF heating of CCA treated utility poles for improved durability and enhanced environmental performance.	(NC)	\$17,265 \$51,795	1997 1998	S. Avramidis	J.N.R. Ruddick

Forest Renewal BC	Drying for improved heartwood permeability	(C)	\$84,332 \$115,107	1996 1997	P. Morris	I.D. Hartley S. Avramidis J.N.R. Ruddick
NSERC Research Grant	Fundamental studies and modeling of non-Darcian fluid flow in wood	(C)	\$14,700	1996	S. Avramidis	
NSERC Research Grant	Surface emission coefficient of wood in the hygroscopic range	(C)	\$21,300 \$21,300 \$21,300 \$21,300	1997 1998 1999 2000	S. Avramidis	
European Commission BRITE- EURAM III	High Fire Performance Wood Products - HIFI Thematic Network	(C)	\$12,560 \$12,560 \$12,560 \$12,560	1998 1999 2000 2001	S. Avramidis	
FRBC/WED/ Coast Forest and Lumber Association	Effect of species and moisture content pre-sorting on the drying characteristics of hemfir baby squares	(C)	\$50,000	2000	S. Avramidis	
Heatwave Drying Systems Ltd Grant-in-Aid	Fundamentals of internal physical processes in wood under dielectric heating and vacuum drying	(C)	\$90,720	2000 2001	S. Avramidis	
FRBC/WED/ Coast Forest and Lumber Association	Evaluating the hygroscopic and dimensional response of western hemlock and amabilis fir baby squares during transportation to Japan	(C)	\$25,673	2000	S. Avramidis	
NSERC Technology Partnership Program Grant	The demonstration of increased fiber utilization using optimized lumber sorting and radio frequency vacuum drying	(C)	\$177,000 + \$40,000 cash from industry	2000 2001 ext to 07/03	S. Avramidis	
NSERC Research Grant	Fractal characterization of the structure and water sorption characteristics of wood	(C)	\$27,000 \$27,000 \$27,000 \$27,000	2001 2002 2003 2004	S. Avramidis	
FRBC/WED/ Coast Forest and Lumber Association	Evaluation of drying and redrying of baby-squares and Hirakaku hemfir	(C)	\$56,700	2001	S. Avramidis	
FRBC/WEDC Coast Forest and Lumber Association	Stability Simulation - Phase 2	(C)	\$162,800	2001 2002	S. Avramidis	
FRBC/WED/ Coast Forest and Lumber Association	Automated Lumber Sorting for Stability (ALSOS) – Phase 1	(C)	\$43,000	2001	S. Avramidis	
FRBC/WEDC Coast Forest and Lumber Association	Stability Simulation - Phase 3	(C)	\$100,000	2002 2003	S. Avramidis	

FRBC/WED/ Coast Forest and Lumber Association	Automated Lumber Sorting for Stability (ALSOS) – Phase 2	(C)	\$110,000	2002 2003	S. Avramidis	
Coast Forest and Lumber Association	HemFir Stability and Moisture Class Assessment		\$78,750	2003 2004	S. Avramidis	
Canadian Forest Service – Natural Resources Canada	Timber Drying Quality Prediction Model	(C)	\$76,125 \$76,125 \$76,125	2003 2004 2005	S. Avramidis	
Canadian Forest Service – Natural Resources Canada	Evaluating Canada’s Underutilized Species, Hybrid Poplar, for the Value-Added Industry	(C)	\$58,800 \$80,000	2005 2006	S. Mansfield	P. Evans S. Avramidis
Natural Sciences and Engineering Research Council	Dynamic vapor sorption apparatus	(C)	\$85,968	2005	S. Avramidis	
Natural Sciences and Engineering Research Council	Modeling of wood thermo- sorptive behavior with artificial neural networks	(C)	\$28,000 \$28,000 \$28,000 \$28,000 \$28,000	2006 2007 2008 2009 2010	S. Avramidis	
Japan Society for the Promotion of Science	Non-destructive measurement of moisture distribution in wood and its application	(C)	¥13,930,000 (C\$135,000)	2006 2007 2008	S. Shida (Univ. of Tokyo)	S. Avramidis (international co- investigator)
NSERC- Collaborative Research and Development Grant	Modeling stress development in wood drying for process optimization	(C)	\$30,000 \$30,000 \$30,000	2007 2008 2009	S. Avramidis	L. Oliveira
FII-CFPA	Eliminating Wet-Spots in BC coastal Hemlock Lamstock. Phase 1: Evaluation of NIR technology to detect wet- spots.	(C)	\$40,400	12/07- 04/08	S. Avramidis	S. Mansfield
Canada Wood Group - FII	Pasteurization of wood using dielectric heating	(C)	\$56,700	12/07- 04/08	S. Avramidis	
NRCan - Value-to- Wood Program	Reducing colour variation in stained veneer panels used by furniture and cabinet industries	(C)	\$43,200	4/08- 04/09	S. Avramidis	P. Evans

FII-CFPA	Eliminating Wet-Spots in BC coastal Hemlock Lamstock. Phase 2: Pilot plant evaluation of NIR technology to detect wet-spots.	(C)	\$80,000	04/08-04/09	S. Avramidis	
Canada Wood Group - FII	Pasteurization of wood using dielectric heating – Phase II	(C)	\$49,665	03/08-04/09	S. Avramidis	
NSERC – Strategic Grants	Assessment and optimization of RF technology as treatment to protect Canadian green log and timber exports by killing microbes and other pests	(C)	\$126,600 \$146,400 \$132,000	08-09 09-10 10-11	S. Avramidis	C. Breuil A. Uzunovic
Canada Wood Group - FII	RF Heating for Phytosanitation of green logs and lumber	(C)	\$39,000	04/09-04/10	S. Avramidis	
FII-CFPA	Eliminating Wet Pockets in BC coastal Hemlock Lamstock. Phase 3: Mill-trial	(C)	\$49,680	04/09-04/10	S. Avramidis	
NSERC-Discovery Grants	Synergistic wood drying modeling based on multiple-scale attributes	(C)	\$25,000 \$25,000 \$25,000 \$25,000 \$25,000	11-12 12-13 13-14 14-15 15-16	S. Avramidis	
NRCan-Value to Wood	Reducing Colour Variation of Woods Used for Furniture and Cabinets	(C)	\$85,038	11-12	S. Avramidis	P. Evans
NSERC-JSPS	Development of a new method based on dual-energy X-ray computed tomography for the evaluation of 3-dimensional solid wood moisture content distribution	©	\$32,000	16-17	S. Avramidis	T. Tanaka

(c) *Research or equivalent contracts (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC)).*

Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Glade Technologies	RF/V drying of hay	NC	19,127	1995	S. Avramidis	
CSIRO Australia	RF/V drying eucalypts	NC	8,580	1995	S. Avramidis	
Dayton & Knight	RF/V drying of biosoils	NC	7,865	1995	S. Avramidis	

Tytun Ltd.	Dielectric Dehydration of Tobacco Leaves at Radio Frequencies and under Vacuum	NC	18,750	2014	S. Avramidis	
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(d) Invited Presentations:

Avramidis, S. 1999. Radio frequency vacuum drying of wood. "State of the art for kiln drying" EU-COST E15 Workshop, Edinburgh, UK, October 13-14.

Avramidis, S. 1999. Dielectric heating and drying of timbers. Annual Conference of the Timber Framers Guild of North America, Whistler, BC, Canada, April 9-11.

Avramidis, S. 1998. Commercial radio frequency/vacuum drying of wood and wood products. Technological Educational Foundation, Drama, Greece.

Avramidis, S. 1998. Dielectric heating and drying of wood - basic and applied studies. CIRAD, Montpellier, France.

Avramidis, S. 1997. Current research on radio frequency/vacuum drying of wood. A state-of-the-art presentation. 3rd International Conference on the Development of Forestry and Wood Science & Technology. Belgrade, Yugoslavia.

Avramidis, S. 1997. The basics of sorption. A tutorial presentation. COST Action E8 - International Conference on Wood Mechanics. Theme: Wood-Water Relations. European Commission, Copenhagen, Denmark.

Avramidis, S. 1997. Dielectric heating and drying of wood. A tutorial presentation to the New Zealand Forest Research Institute. Rotorua, New Zealand.

Avramidis, S. 1997. Radio frequency/vacuum drying of timbers: The Canadian experience. A tutorial presentation to the New Zealand Forest Engineers Association. Rotorua, New Zealand.

Avramidis, S. 1997. Fundamentals of radio frequency/vacuum drying of lumber. A state-of-the-art presentation. The Institute Wood Science, CSIRO, Clayton, Victoria, Australia.

Avramidis, S. 1997. Radio frequency/vacuum drying of timbers: The Canadian experience. A state-of-the-art presentation. Queensland Department of Primary Industries, Indooroopilly, Queensland, Australia.

Avramidis, S. 1995. Recent developments in wood composites technology and products. A state-of-the-art presentation. Aristotelian University, Department of Forestry and Natural Environment, Thessaloniki, Greece.

Avramidis, S., Liu, F. and R.L. Zwick. 1994. Radio-frequency/vacuum drying of softwoods. State-of-the-art presentation. Forest Products Society sponsored International Conference on "Profitable solutions for quality drying of softwoods and hardwoods." Charlotte, North Carolina.

Avramidis, S. 1993. Steam conditioning of lumber during the drying process - opportunities for sawmills to improve quality and decrease costs. Research presentation. Wood Forum. March 9, 1993. Vancouver, B.C.

Avramidis, S. 1998 Drying high grade specialty items. Research presentation. Wood Forum. March 8, 1988, Vancouver, B.C.

(e) Conference Presentations:

- Shi, J and **S. Avramidis**. 2015. Water sorption hysteresis modeling and cell-wall architectural elucidation. PacifiChem 2015, Dec. 15-20, Honolulu, Hawaii.
- Lazarescu, C. and **S. Avramidis**. 2012. Lodgepole pine (*Pinus contorta*): From a sick tree to a healthy timber. Forest Products Society 66th International Convention, Washington, DC.
- Lazarescu, C. and **S. Avramidis**. 2012. Heating characteristics of softwoods in a high frequency field. 12th International IUFRO Wood Drying Conference. July 30 to August 03, Belém, Para, Brazil.
- Lazarescu, C. and **S. Avramidis** 2011. High frequency heating of wood. European Drying Conference. EuroDrying'2011. Palma, Balearic Island, Spain, 26-28 October.
- Lazarescu, C. and **S. Avramidis** 2011. Shrinkage response to tensile stress during hemlock drying. European Drying Conference. EuroDrying'2011. Palma, Balearic Island, Spain, 26-28 October.
- Iliadis, L. Tachos, S., **Avramidis, S.** and S. Mansfield. 2011. Support Vector Machines versus Artificial Neural Networks for wood Dielectric Loss Factor estimation. 12th EANN / 7th AIAI Joint Conference: Engineering Applications of Neural Networks / Artificial Intelligence Applications and Innovations. 15 - 18 September 2011, Corfu, Greece, 140-149pp.
- Lazarescu, C., Bedeleian, B. and **S. Avramidis**. 2011. Softwood Log Heating using Dielectric Fields at Radio-Frequencies. Forest Products Society 65th International Convention, Portland, OR, June 19-21.
- Lazarescu, C., Dale, A., Son, E., Uzunovic, A. Breuil, C. **Avramidis, S.** 2010. Impact of radio frequency heat treatments over softwoods infested with fungi or nematodes. Lisbon, Portugal, 22-23 October 2010.
- Watanabe, K., Hart, J.F., Mansfield, S.D. and **S. Avramidis**. 2010. Near-infrared technology applications for quality control in wood processing. COST Action E53 Conference, Edinburgh, UK. May 6.
- Elustondo, D., Oliveira, L. and **S. Avramidis**. 2010. New Methodology to Optimize Sorting in Wood Drying. *In proceedings* of the 11th International IUFRO Conference on Wood Drying, Skelleftea, Sweden, January 2010. 208-215.
- Lazarescu, C., **Avramidis, S.** and L. Oliveira. 2010. Shrinkage response to tensile stresses during hemlock (*Tsuga heterophylla*) drying. *In proceedings* of the 11th International IUFRO Conference on Wood Drying, Skelleftea, Sweden, January 2010, 122-130.
- Watanabe, K., Son, E., Lazarescu, C., Breuil, C. and **S. Avramidis**. 2010. Radio Frequency Heating for Green Wood Phytosanitation. *In proceedings* of the 11th International IUFRO Conference on Wood Drying, Skelleftea, Sweden, January 2010, 307-312.
- Lazarescu, C., Watanabe, K. and **S. Avramidis**. 2009. Density and Moisture Profiles in Timber Drying by CT-Scanning Technology, Conference Proceedings, 7th International Conference on Wood Science and Engineering in the Third Millennium. Brasov, Romania, June 4-6.
- S.G. Hatzikiriakos and **S. Avramidis**. 2008. Mechanics of Polytetrafluoroethylene (PTFE) Paste Flow. ICCES'08, Honolulu, USA 16-22 March.
- Avramidis, S.**, Hao, B. and K. Rohrbach. 2006. Assessing kiln drying moisture content for square hemlock timbers. 60th Forest Products Society International Convention, June 25-28, Newport Beach, CA
- Lazarescu, C. and **S. Avramidis**. 2006. Drying Strains of *Tsuga heterophylla* boards. 60th Forest Products Society International Convention, June 25-28, Newport Beach, CA
- Lazarescu, C. and **S. Avramidis**. 2006. The evolution of moisture content gradient during drying using CT-scanning technique. 60th Forest Products Society International Convention, June 25-28, Newport Beach, CA

- Shida, S. and **S. Avramidis**. 2005. Dimensional changes in service of dried softwood-squares having different kiln-dried moisture contents. Forest Products Society, 59th International Convention, Quebec City, Canada.
- Bradic, S. and **S. Avramidis**. 2005. Juvenile wood impact on the kiln drying characteristics of hemfir square timbers. Forest Products Society, 59th International Convention, Quebec City, Canada.
- Elustondo, D. and **S. Avramidis**. 2004. The demonstration of increased lumber value using combined lumber sorting and RFV drying. COST-E15 Conference on Wood Drying, Athens, Greece.
- Alexiadis, P., Cohen, D., Kozak, R.A., **Avramidis, S.** and J. Welling. 2004. A comparison of kiln drying issues between Canada and Europe. COST-E15, European conference on Wood Drying, Athens, Greece.
- Alexiadis, P., **Avramidis, S.**, Kozak, R.A. and D. H. Cohen. 2003. Kiln drying problems and issues in the Canadian forest products industry. 2003. Poster presentation, 57th annual meeting of the Forest Products Society, Bellevue, WA
- Hao, B. and **S. Avramidis**. 2003. Effect of slope of grain and annual ring orientation on the drying of coastal hemlock baby squares. Poster presentation, 57th annual meeting of the Forest Products Society, Bellevue, WA
- Elustondo, D., **Avramidis, S.**, and R.L.Zwick. 2003. Economic analysis of the dry-sort-redry strategy using combined conventional and RFV technologies. Poster presentation, 57th annual meeting of the Forest Products Society, Bellevue, WA
- Sackey, E.K., **Avramidis, S.** and L. Oliveira. 2003. Exploratory evaluation of the effect of oscillating drying strategy on the drying characteristics of thick hemlock timbers. 57th annual meeting of the Forest Products Society, Bellevue, WA
- Elustondo, D., **Avramidis, S.**, and R.L.Zwick. 2003. The demonstration of increased fiber utilization using optimized lumber sorting and RFV drying. 57th annual meeting of the Forest Products Society, Bellevue, WA
- Avramidis, S.**, Koumoutsakos, A. and D. Elustondo. 2002. Assessment of a Dry/Sort/Re-dry Strategy for Pacific Coast Hemlock Timbers. 56th Forest Products Society Annual Meeting, TIG Session 8: Current Topics in Wood Drying, Madison, WI, USA.
- Avramidis, S.**, L. Oliveira and J. Aune. 2001. Exploring sorting strategies for drying hem-fir square timbers. 55th annual meeting of the Forest Products Society, Baltimore, MA.
- Zwick, R.L., and **S. Avramidis**. 2001. Q-sift - a novel processing approach to meet the end-user's requirements for wood moisture content. COST-E15 annual conference, Helsinki, Finland.
- Zwick, R.L., and **S. Avramidis**. 2000. Commercial RF/V kiln drying - recent successes. 51st Annual Meeting of the Western Dry Kiln Association, Reno, Nevada, USA.
- Avramidis, S.** and R. Zwick. 1999. Radio-Frequency/Vacuum Drying of Large Timbers. 53rd Annual meeting of the Forest Products Society, Wood Drying & Physics Session, Boise, ID, USA, June 27-30.
- Hao, B. and **S. Avramidis**. 1999. Geometry of wood internal surfaces in hygroscopic range by using fractal theory. The 4th International Conference on the Development of Wood Science, Wood Technology and Forestry. Missenden Abbey, UK, 14-16 July 1999.
- Garcia, P., **Avramidis, S.** and F. Lam. 1999. Oriented-strand-board hot-pressing and strand orientation. The 4th International Conference on the Development of Wood Science, Wood Technology and Forestry. Missenden Abbey, UK, 14-16 July 1999.
- Zwick, R.L., **Avramidis, S.** and L. Cai. 1997. Drying methods to eliminate or reduce wet pockets - the RFV drying experience. "Quality Lumber Drying in the Pacific Northwest", Forest Products Society sponsored International Conference, Penticton, BC, Canada.

- Cai, L., **Avramidis, S.** 1997. A study on the separation of diffusion and surface emission coefficients in wood. 51st annual meeting of the Forest Products Society, Vancouver, BC, Canada.
- Zhou, B., **Avramidis, S.** 1997. The dielectric characteristics of two BC species during radio frequency heating. 51st annual meeting of the Forest Products Society, Vancouver, BC, Canada.
- Lu, J., **Avramidis, S.** 1997. Detection of nonlinear air flow in wood. 51st annual meeting of the Forest Products Society, Vancouver, BC, Canada.
- Oudjehane, A., Lam, F., **Avramidis, S.** 1997. Modeling the influence of formation process on engineering properties of flake boards. 51st annual meeting of the Forest Products Society, Vancouver, BC, Canada.
- Oudjehane, A., Lam, F., **Avramidis, S.** 1997. On the process of random and defined structures in wood composites. International Conference on Composite Engineering (ICCE 4), Hawaii, USA.
- Avramidis, S.**, Zwick, R.L., Bicho, P.A., Chen, T., Breuil, C., and J.N. Saddler. 1997. Effluent treatment of condensates generated from radio-frequency/vacuum dried softwoods. 48th Annual Meeting of the Western Dry Kiln Association, Reno, Nevada.
- Avramidis, S.** 1997. Current research on radio frequency/vacuum drying of wood. 3rd International Conference on the Development of Forestry and Wood Science/Technology. Belgrade, Yugoslavia.
- Avramidis, S.** 1997. Moisture sorption in wood: state-of-the art. COST Action E8 - Mechanical Performance of Wood and Wood products. European Commission, Copenhagen, Denmark.
- Avramidis, S.**, Zhang, L., and S.G. Hatzikiriakos. 1996. Moisture transfer characteristics in wood during RF/V drying. 5th International IUFRO Wood Drying Conference, Quebec City, Quebec.
- Rosza, A.N., and **S. Avramidis.** 1996. Radio frequency/vacuum drying of eucalypt timbers. 5th International IUFRO Wood Drying Conference, Quebec City, Quebec.
- Zwick, R.L., and **S. Avramidis.** 1996. Current status of radio frequency/vacuum drying. 47th Annual Meeting of the Western Dry Kiln Association, Vancouver, BC.
- Li, M., **Avramidis, S.**, Oliveira, L., and I.D. Hartley. 1996. Do vertical air gaps affect the drying characteristics of hemfir baby squares? Results of a preliminary study. 47th Annual Meeting of the Western Dry Kiln Association, Vancouver, BC.
- Avramidis, S.**, and R.L. Zwick. 1996. Development of a commercial scale radio frequency/vacuum kiln. 2nd International Conference on the Development of Wood Science, Technology and Forestry. Sopron, Hungary.
- Zwick, R.L., and **S. Avramidis.** 1995. The commercial viability of radio frequency/vacuum drying of softwoods. Forest Products Society, Drying Pacific Northwest Species for Quality Markets, Conference, Bellevue, Washington.
- Hartley, I.D., and **S. Avramidis.** 1995. Investigating water in wood using Nuclear Magnetic Resonance. 49th meeting of the Forest Products Society, Portland, Oregon.
- Avramidis, S.** 1995. Dielectric heating of wood. 49th annual meeting of the Forest Products Society, Portland, Oregon.
- Avramidis, S.** 1995. and R.L. Zwick. 1995. Dielectric drying of wood under vacuum. International Conference on Microwave and High Frequency Heating, Cambridge, U.K.
- Zwick, R.L., Herring J., Hoefler, W., and **S. Avramidis.** 1995. Design considerations for radio-frequency/vacuum dryers. 30th Annual Microwave Symposium, International Microwave Power Institute, Denver, Colorado.

Avramidis, S. 1995. Dielectric heating of wood. Wood Physics Technical Session. 49th annual meeting of Forest Products Society, Portland, Oregon.

Avramidis, S., Liu, F., and R.L. Zwick. 1994. High frequency drying of thick lumber. 15th annual meeting of the Canadian Wood Preservation Association, Toronto, Ontario.

Hartley, I. and **S. Avramidis.** 1994. NMR studies of water interactions in wood. 2nd Symposium on Wood Structure and Properties. Zvolen, Slovakia.

Avramidis, S., Liu, F., and R.L. Zwick. 1994. Radio-frequency/vacuum drying of thick softwood lumber. 4th International Wood Drying Conference, Rotorua,), New Zealand.

Zwick, R.L., Neilson, B. and **S. Avramidis.** 1994. Development of a commercial radio-frequency vacuum kiln for drying softwood lumber. Canadian Electrical Association Conference, "Electricity 94", Toronto, Canada.

Avramidis, S. 1994. Drying thick lumber in a reduced ambient pressure and with internal heat generation. The 1st International Conference on the Development of Wood Science/Technology and Forestry. High Wycombe, England.

Oliveira, L., **Avramidis, S.,** and Y. Zhang. 1994. Effects of species and basic density on the drying characteristics of 4 x 4 hem-fir lumber. 45th annual meeting of the Western Dry Kiln Association, Vancouver, B.C.

Avramidis, S., Y. Zhang, and L. Oliveira. 1994. Effect of species and basic density separation on drying rates and quality of 4 x 4 hem-fir lumber. 48th annual meeting of Forest Products Society, Portland, Maine.

Liu, J., S. Ellis, and **S. Avramidis.** 1994. Analysis of reflectance spectra of brown-stained western hemlock lumber. 48th annual meeting of the Forest Products Society, Portland, Maine.

Zwick, R.L., and **S. Avramidis.** 1993. Radio frequency drying of thick lumber. The globalization of wood: supply, processes, products and markets. Forest Products Society International Conference, Portland, Oregon.

Zwick, R.L., and **S. Avramidis.** 1993. Radio-frequency/vacuum drying of thick lumber. IUFRO conference on Vacuum Drying of Wood '93, Svolen, Slovakia.

Araujo, C., **S. Avramidis,** and A. MacKay. 1993. Behavior of solid wood and cell-wall water as a function of moisture content. A Proton Magnetic Resonance study. 48th annual congress of the Canadian Association of Physicists. Vancouver, B.C.

Avramidis, S., and F. Liu. 1993. Heat and mass transfer in wood during radio-frequency/vacuum drying. 47th annual meeting of the Forest Products Society. Clearwater, FL.

Oliveira, L., and **S. Avramidis.** 1993. Effects of presteaming on shrinkage and moisture content distribution of 4" by 4" hemfir lumber. 44th annual meeting of the Western Dry Kiln Association, Reno, NV.

Avramidis, S., T. Papathanasiou, and P. Englezos. 1992. Modeling of dynamic nonisothermal moisture diffusion in wood. 3rd International Conference on Wood Drying, Vienna, Austria.

Avramidis, S., S. Ellis, and J. Liu. 1992. Brown stain in Pacific coast hemlock: evaluation and alleviation through special drying techniques. IUFRO Division 5, General Meeting, Nancy, France.

Hartley, I., and **S. Avramidis.** 1992. Analysis of the wood sorption isotherm using statistical mechanics based on the water cluster theory. 46th annual meeting of the Forest Products Research Society, Charleston, SC.

Ellis, S., and **S. Avramidis.** 1992. Development of brown stain in Pacific coast hemlock. 46th annual meeting of the Forest Products Research Society, Charleston, SC.

Avramidis, S. 1992. Unsteady-state nonisothermal diffusion of moisture in wood. 46th annual meeting of the Forest Products Research Society, Charleston, SC.

Avramidis, S., and R.N. Zwick. 1992. Radio frequency/vacuum drying of softwoods. 43th annual Meeting of the Western Dry Kiln Association, Reno, NV.

Avramidis, S., and J.N.R. Ruddick. 1989. Temperature and moisture effect on CCA fixation. 10th annual meeting of the Canadian Wood Preservation Association, Vancouver, B.C.

Avramidis, S. 1986. Experiments in nonisothermal diffusion in wood. Forest Products Research Society annual meeting, Spokane, WA.

Avramidis, S. 1986. Sorption studies for the determination of coefficients and activation energies. 40th Forest Products Research Society annual meeting, Spokane, WA.

Avramidis, S. 1985. Nonisothermal diffusion experiments and sorption studies in wood. 39th Forest Product Research Society annual meeting, Orlando, FL.

Avramidis, S. 1985. Nonequilibrium thermodynamics applied to nonisothermal diffusion of moisture through wood. 4th University of Rochester/Syracuse University joint symposium on Materials Science, Rochester, N.Y.

(f) Other Presentations:

Avramidis, S. RF applications to the forest products industry. 1993. Presentation to the Forintek Technical Advisory Committee, Forintek Canada Corporation, Vancouver, B.C.

Avramidis, S. RF Wood: a coordinated program using radio-frequency/vacuum technology to enhance the value of fibre from Canadian forests. 1993. Presentation to federal funding agencies, Ottawa, Ontario.

(g) Conference Participation (Organizer, Keynote Speaker, etc.):

- **Member**, Scientific Committee, International Conference on Wood Science and Forestry (ICWSF '99), High Wycombe, Buckinghamshire, UK, July 14-16, 1999.
- **Session Moderator**, Annual Conference of the Greek Forestry Society, Alexandroupolis, Greece, 1998.
- **Member**, Organizing Committee, International Drying Conference (Drying '98), August 1998, Halkidiki, Greece.
- **Session Moderator**, International Drying Conference (Drying '98), L10: Thermophysical Properties. August 1998, Halkidiki, Greece.
- **Program Chair**, Drying and Physics Session, 51st Forest Products Society Annual Meeting, Vancouver, B.C. *Organized and reviewed submitted papers.*
- **Member**, Organizing Committee of the 3rd International Conference on the Development of Forestry and Wood Science/Technology, 1997, Belgrade, Yugoslavia. *Participated in program development and evaluation of submitted papers.*
- **Member**, Conference Panel at the 2nd International Conference on the Development of Wood Science, Technology and Forestry, Sopron, Hungary, 1996. *Participated in program development and evaluation of submitted papers.*
- **Session Moderator**, Applied Wood Drying Session, International IUFRO Wood Drying Conference, Quebec City, 1996. *Invited by IUFRO conference organizers.*
- **Member**, Organizing Committee of the 1995 Forest Products Society sponsored Wood Drying Conference in Seattle, WA. *Participated in program development, speaker identification and organization of sessions*
- **Member**, International Advisory Committee, IAWPS2003 International Conference on Forest Products, April 21-24, 2003, Korea.
- **Member**, Organizing Committee, Modern Environmental Issues Conference, Orestiada, Greece, April 2004.

- **Member**, Scientific Committee, 7th International Conference on Wood Science and Engineering in the Third Millennium. Brasov, Romania, June 4-6, 2009.
- **Member**, Scientific Board, 8th International Conference “Wood Science and Engineering in the Third Millennium” – ICWSE 2011, November 2011, Brasov, Romania.
- **Member**, Scientific Board, 9th International Conference “Wood Science and Engineering in the Third Millennium” – ICWSE 2013, November 2013, Brasov, Romania
- **Member**, Scientific Committee, 10th International Conference “Wood Science and Engineering in the Third Millennium” – ICWSE 2015, 5-7 November 2015, Brasov, Romania
- **Member**, International Scientific Committee, IUFRO Wood Drying Conference, Spetember 2016, Istanbul, Turkey.

10. SERVICE TO THE UNIVERSITY

(a) Memberships on committees, including offices held and dates:

- **Member**, UBC-Wood Science Department brochure development and design, 1987-88.
- **Member**, Forestry safety committee, 1987-88.
- **Member**, UBC-Wood Science Department brochure committee, 1990-91.
- **Chair**, Forintek Canada graduate fellowships departmental committee, 1987-1988, 1990-1991.
- **Chair**, UBC-Wood Science Department equipment review committee, 1990-1991.
- **Member**, UBC-Wood Science Department cost recovering committee, 1993-1994.
- **Member**, UBC-Wood Science Department seminar committee, 1994-1995.
- **Chair**, UBC-Wood Science Department Adjunct Professors and Visiting Scientists departmental committee 1994-1995.
- **Member**, UBC-Wood Science Department Appointments, Promotions and Tenure committee, 1994-present.
- Forestry Chronicle, UBC-Wood Science Department news **coordinator**, 1993-1994.
- **Member**, Faculty of Forestry committee on Telecommunications and Computer Connections in the UBC Forest Sciences Centre, 1995-2000.
- Creation and Design of the Wood Science Department World Wide Web Home Page, **webmaster**, 1996 - 2004.
- **Member**, UBC-Wood Science Departmental standing committee on Co-op undergraduate program, 1996-2000.
- **Member**, UBC-Faculty of Forestry Graduate Advisory Committee, 1996-2000
- **Organizer** of the Wood Science Seminar series for 1997.
- **Chair**, UBC-Wood Science Department, Graduate Fellowships & Scholarships departmental committee 1996-1997.
- **Representative** for the Faculty of Forestry to the Faculty of Science, 1999-2001.
- **Member**, ad-hoc committee on funding for the professional M.Sc. program, 2000.
- **Member**, standing Departmental committee on CAWP, 2000.
- **Member**, standing Library Advisory Committee for MacMillan Library, 2000.
- **Organizer**, Burgess-Lane Lecture, Faculty of Forestry, 2001.
- **Member**, ad-hoc Provost’s Department of Wood Science new Head search committee. 2000.
- **Member**, Forestry Graduate Studies Advisory Committee, 2000.
- **Chair**, Wood Science Department Adjunct Professors appointment and re-appointment committee, 1999.
- **Member**, Departmental Committee for organizing the WPP program 10 years celebration, 2006
- **Chair**, Departmental Committee for the review of the WPP curriculum, 2005-2006.
- **Member**, ad-hoc Forestry-LFS Structure Task Force, 2006.
- **Member**, standing Forestry Killam PDF evaluation committee, 2006.
- **Member**, ad-hoc Department of Wood Science – CAWP re-organization sub-committee, 2006
- **Member**, standing CAWP Management Committee, 2007 – present.
- **Member**, standing Department-Undergraduate Student Committee, 2007 – **present**.
- **Member**, standing Department/CAWP Equipment Committee, 2007 – 2016.
- **Member**, ad-hoc Department Technicians Evaluation Committee, 2006 – 2007.
- **Member**, standing Wood Products Processing Program Scholarship Committee, 2006 – **present**.
- **Member**, standing Faculty of Forestry Appointments, Promotion and Tennure Committee, 2007-2010.
- **Member**, standing IMAJO Western Red Cedar Research Fund evaluation committee, 2007.

- **Member**, standing NRCan-CFS Value-to-Wood Program, R&D Committee, 2007 – 2012.
- **Member**, standing Departmental/CAWP Communications Committee, 2008 – **present**.
- **Liaison**, ad-hoc Global Environment Fund Opportunities – Department of Wood Science/CAWP, 2008 – 2011.
- **Member**, standing Forestry Best Ph.D. Thesis Award Committee, 2009 – 2013.
- **Member**, standing Forestry Best M.Sc. Thesis Award Committee, 2009 – 2013.
- **Member**, standing Forestry Internal Awards Committee, 2009 – 2013.
- **Member**, standing UBC Faculty Research Awards Committee, 2010 – 2013.
- **Member**, standing Wood Products Processing Program Co-op Program Steering Committee 2011- present.
- **Member**, IUFRO Division 5 Conference 2017 organizing committee 2014 – 2017
- **Member**, standing Forestry Peer Review of Teaching committee, 2014 – **present**
- **Member**, ad-hoc committee on the hiring of two Instructors for the Wood Science Department, 2014.
- **Member**, Senior Management Committee, Faculty of Forestry, 2016 – **present**.
- **Member**, Management and Coordination of Course-based Professional Master Programs Committee, 2016 – **present**.

(b) Other service, including dates:

- **UBC Senator**, 1993-1996.
- **Member** of the UBC Senate Committee for Student Appeals on Academic Discipline, 1993-96.
- **Member** of the UBC Senate Committee for Student Awards, 1993-96.
- **Member** of the UBC Wesbrook Scholar Selection Committee, 1994-95.
- **UBC Senator**, 2014-2017.
- **Member** of the UBC Senate Awards Committee, 2014-2017.
- **Member** of the UBC Senate Library Committee, 2014-2017.
- **Member** of the UBC Senate Appeals on Academic Standing Committee, 2015-2017.

11. SERVICE TO THE COMMUNITY

(a) Memberships on scholarly societies, including offices held and dates:

- **Member**, Forest Products Society (FPS), 1982-present.
- **Member**, Society of Wood Science and Technology (SWST), 1982-present.
- **Fellow**, The Institute of Wood Science (FIWSc), 1985-present.
- **Member**, Geotechnical Council of Greece, 1981-present.
- **Member**, Sigma Xi, 1984-present.
- **Member**, American Wood Preservers Association, 1983-86.
- **Member**, Canadian Wood Preservation Association, 1993-99.
- **Member**, British Columbia Coast Dry Kiln Association, 1995-present.
- **Member**, Hellenic Society of Foresters, 1997 - present.
- **Member**, American Society for Testing and Materials, 1998 – 2004.
- **Member**, The Japan Wood Research Society, 2001 – present.
- **Fellow**, International Academy of Wood Science (FIAWSc), 2004 – present.
- **Fellow**, Institute of Materials, Minerals and Mining (FIMMM) 2014 – present.

(b) Memberships on other societies, including offices held and dates:

- **Member of the Board of Governors**, Order of The American - Hellenic Educational and Progressive Association (AHEPA), 1992-1993.
- **Member** of the Hellenic-Canadian Congress; National Affairs Committee, 1992-1998.
- **Member** of the Hellenic-Canadian Congress of BC, 1996-1998.
- **Chair**, Public and Media Relations Committee, Hellenic-Canadian Congress of BC, 1996-1998.

(c) Memberships on scholarly committees, including offices held and dates:

- **Member**, The Society of Wood Science and Technology: Membership Committee, 1991-1994.
- **Chair**, The Society of Wood Science and Technology: Membership Committee 1994-1996. *The task of the committee was to come up with a strategy for improving the SWST membership.*
- **Member**, American Society for Testing and Materials: Committee member, D4444-D07.01.01; species and temperature corrections for hand held moisture meters, 1992-1995. *The task of the committee was to evaluate and propose improvements of the standard.*
- **Member**, Forest Products Society, Wood Drying Technical Interest Group, 1993-2000.
- **Secretary**, Forest Products Society, Wood Physics Technical Interest Group, 1992-1994.
- **Member**, Forest Products Society, Wood Physics Technical Interest Group, 1992-present.
- **Member**, Forest Products Society, University Forest Products Programs Group, UBC representative, 1992-1993. *The task of the group was the evaluation of current undergraduate enrollment in N. American universities and the development of strategies to attract more students.*
- **Member**, International Union of Forestry Research Organizations (IUFRO), Working Party on Wood Drying, S5-04.06, 1994 - 2000. *This working party is responsible for developing drying research strategies on an international basis.*
- **Invited Member** of Review Panel, Science Council of British Columbia, Forest Products Committee, 1995-present. *Review panel of research proposals submitted for funding to SCBC.*
- **Invited Expert Member**, Agriculture and Fisheries R & D Committee, European Commission, Directorate General IX, Science, Research and Technologies, Life Sciences and Technologies, European Union, Brussels. April 1996. *Five-member committee to evaluate in Brussels the research proposals submitted once-a-year to the FAIR program of EU for funding.*
- **Chair**, Society of Wood Science and Technology, George Marra Award Committee, 1996-97. *The committee had to evaluate and select the best paper published in Volume 29 of the Wood and Fiber Science Journal.*
- **Invited Expert Member**, Agriculture and Fisheries R & D Committee, European Commission, Directorate General IX, Science, Research and Technologies, Life Sciences and Technologies, European Union, Brussels. April 1997. *Five-member committee to evaluate in Brussels the research proposals submitted once-a-year to the FAIR program of EU for funding.*
- **Invited Member**, Organizing and Paper Evaluation Committees, 11th International Drying Symposium, IDS'98, August 1998, Thessaloniki, Greece. *Issues related to the organization of this bi-annual international conference and review of papers submitted in the area of wood drying.*
- **Chair**, Sections 10, 11 & 13, 3rd International Conference on the Development of Forestry and Wood Science & Technology. 1997, Belgrade, Yugoslavia.
- **Member**, European Union COST Action E9 - Life Cycle Assessment of Forestry and Forest Products, Working Group 4 - Methodology, European Commission, 1997-2001. *Create additions and/or modifications to the LCA method which "improve" LCAs for products and services from forest systems and which are acceptable to the wider LCA community. Support the activity of the other COST-Action E9 working groups.*
- **Invited Expert Member – representative of European Forestry**, 1998, European Commission Ad-hoc Committee for the development of the 5th Research Framework for the Forest-Wood chain. Brussels, Belgium.
- **Member**, Management Committee, European Union, COST- Action E15 – Advances in the Drying of Wood. 1999-2005.
- **Invited Member**, External Advisory Group for the Key Action 4 on "Sustainable Agriculture, Forestry and Fisheries Including the Integrated Development of Rural Areas". European Union, Directorate General 12, Brussels, Belgium, 1998-2002.
- **Member**, NRCan-CFS Value-to-Wood Research Advisory Committee, 2007-2012.
- **Member**, Society of Wood Science and Technology Education Committee, 2008 – 2012.
- **Board of Directors**, Society of Wood Science and Technology, 2013-2015.

(c) Memberships on other committees, including offices held and dates:

- **Member International Advisory Committee**, The 18th Symposium in the biennial series of International Drying Symposia Series (IDS), Xiamen University, Xiamen City, Fujian Province, People's Republic of China, 2012

(e) Editorships (list journal and dates):

- International Editorial Board, **DRYING TECHNOLOGY** journal, 2005 – present.
- Scientific Committee, **Maderas. Ciencia y Tecnologia** journal, 2006 – present
- Editorial Board, **Wood Material Science and Engineering** journal, 2006 – present
- Editorial Board, **Prerada Drveta (Wood Processing)** journal, 2006 – present.
- Editorial Board, **International Wood Products Journal**, 2010 – present.
- Editorial Board, **ISRN Materials Science**, 2012 – 2014.
- Special Editor, Special Issue - **International Journal of Energy Engineering**, Drying: Technological Trends, Energy Efficiency and Environmental Issues (2013-2014)
- Editorial Board, **International Journal of Sustainable Agricultural Management and Informatics**, 2014 – present.

*(f) Reviewer:**for journals:*

Regular reviewer for the following scientific journals:

- Forest Products Journal
- Wood and Fiber Science
- Journal of the American Institute of Chemical Engineers
- Holzforschung
- Wood Science and Technology
- Journal of Wood Science
- Material und Organismen
- Drying Technology
- Transactions of the Institute of Electrical and Electronics Engineers
- Forest Ecology and Management
- Canadian Journal of Forest Research
- Environmental Modelling and Software
- Wood Material Science and Engineering
- Theromochimica Acta
- Journal of Materials Processing Technology
- New Zealand Journal Forestry Science
- Maderas: Ciencia Y Tecnologia
- Journal of Forestry
- Applied Energy
- Journal of Applied Polymer Science
- International Forest Products Journal
- Journal of Wood Engineering
- BioEnergy
- Biomass and Bioenergy
- Cellulose
- Bioresources
- Composites Part B: Engineering
- International Journal of Lignocellulosic Products
- Biosystems Engineering
- IEEE Sensors Journal
- International Journal of Physical Sciences
- International Journal of Energy Engineering

for funding agencies:

- Engineering and Physical Sciences research Council of the UK – evaluator of EPSRC Advanced Research Fellowship applications (since 2000).
- US Department of Agriculture (by invitation) - National Research Initiative Competitive Grants Program, evaluation of grant applications, (since 1990). *I have been reviewing and evaluating research proposals submitted to USDA for funding by professors from US universities.*
- US Department of Agriculture (by invitation) - Cooperative State Research Service - Small Business Innovation Research Program, evaluation of grant applications, (since 1994). *I have been reviewing and evaluating research proposals submitted to USDA for funding by small businesses with R&D departments on an annual basis.*
- Science Council of British Columbia (by invitation), Grant Monitor, 1990-93. *Have monitored the progress and evaluated the progress reports of funded research grants on behalf of SCBC.*
- Science Council of British Columbia (by invitation), Science Council of British Columbia, Forest Products Research Committee, 1995-2000. *Member of review panel of research proposals submitted for funding to SCBC*
- South African Foundation for Research Development (by invitation), Evaluator, 1993-1994, 1996-1997. *Evaluation of researchers/professors on behalf of FRD for renewal of their “research” status.*
- European Commission (by invitation), DG12, Invited Expert Member of a 5 person committee for the review of research proposals related to Wood Science & Technology. Brussels, Belgium, 1995, 1996, 1997.
- Invited Reviewer for the Fonds pour la Formation de Chercheurs et l’Aide a la Recherche du Quebec, 1996. *Evaluation of research proposals in the areas of wood physics and drying.*
- Natural Sciences & Engineering Research Council of Canada - Research Grants. *External reviewer of research proposals submitted to NSERC for funding in the areas of wood physics and drying.*
- Austrian Science Fund, 2004 (by invitation). *External reviewer of research proposals submitted for funding to the Lise Meitner-Program*
- Swiss National Science Foundation, 2008 (by invitation). *External reviewer of research proposals.*
- Academy of Finland and the Research Council for Natural Sciences and Engineering, 2009 (by invitation). *External reviewer of research proposal.*
- NSERC Discovery Grants program, 2009 – *External reviewer.*
- Invited reviewer for the Chilean Superior Council of the National Fund for Scientific & Technological Development (FONDECYT), 2010.
- Ministry of Education, Greece, EU-Thalis Research program 2010 – *external reviewer.*
- Ministry of Education, Greece, EU-Archimedes Research program 2011 – *external reviewer.*
- Research Council for Natural Sciences and Engineering at the Academy of Finland, 2012, 2 grants - *external reviewer*
- Invited reviewer for the Chilean Chilean National Commission for Scientific and Technological Research - CONICYT, 10/2015

of academic programs:

- Aegean University, Greece. **External reviewer** of EU - EPEAEK II new graduate studies program in “Environmental Policy and Management”. 2001.
- Aristotelian University, Greece. **External reviewer** of EU – EPEAEK II new graduate studies program in “Forestry and Natural Environment”, 2001.
- Department of Forestry, Technological Educational Institute of Kavala, Greece. **Chair**, External Evaluation Committee, April 2010.
- Department of Wood Technology and Furniture Design, Technological Institute of Larisa, Greece. **Chair**, External Evaluation Committee, October 2010.
- Department of Forestry & Natural Environment Management, Technological Institute of Lamia, Greece, **Chair**, External Evaluation Committee, March 2012.

(g) *External examiner (indicate universities and dates):*

see 8r

(h) Consultant (indicate organization and dates):

Several consultations to the Canadian, US, and International forest products industry on issues related to conventional and RFV wood drying. Assisting with requests regarding wood-moisture relationships and wood behavior under changing environmental conditions in buildings. All consultations were/are offered free of charge as part of my extension/public service.

(i) Other service to the scientific community:

- **External Evaluator** of Dr. Mike Milota's dossier for promotion to Professor, Department of Forest products, Oregon State University, 2002.
- **Evaluator** of Dr. Hendrik F. Vermaas, Professor, University of Stellenbosch, for the South African Foundation for Research and Development (FRD), 1994, 1996. This is part of the regular evaluation of South African researchers by FRD every three years. It is done by internationally recognized experts in the area and by invitation.
- **Wood-Science electronic bulletin board manager.** Conceived, organized and managed an electronic list through internet which brings together a large number of academics, researchers and professionals from all over the world who are interested in the areas of wood and fibre science and technology, forest products, pulp and paper and engineering. 1994-Present.
- **Scientific Mentor** to two B.C. high school students (A. Gakhil and J. Payron, Vernon, B.C.), competing at the Canada-wide Science Fair, Science '95, with a project entitled: "Microwaving of Wood".
- **External Evaluator** for Dr. Mike Milota's (Oregon State University) application for promotion to Professor's rank, 2001.
- **External Evaluator** for Dr. Dawson-Andoh's (West Virginia University) application dossier for promotion to the rank of Professor, 2007.
- **External Evaluator** Dr. Georgios Zavakos' (Technological Educational Institute – Larissa, Greece) dossier for tenure at the Assistant Professor's rank, 2011.
- **External Evaluator** Dr. Antonios Papadopoulos (Technological Educational Institute – Kavala, Greece) dossier for promotion to the Assistant Professor's rank, 2012.
- **External Evaluator** Dr. Yannis Raftoyannis' (Technological Educational Institute – Lamia, Greece) dossier for promotion to Professor's rank, 2012.
- **External Evaluator** for Dr. Brian Via (Auburn University) application dossier for promotion to Associate professor and tenure, 2012.
- **External Evaluator** Dr. Stergios Adamopoulos' (Technological Educational Institute – Larissa, Greece) dossier for promotion to the Associate Professor's rank, 2012.
- **External Evaluator**, Dr. Christos Gallis, NAGREF – Forest Research Institute application for AUPh Professorship.
- **External Evaluator**, Dr. Din Muhammad Zahid Khan, Professor, Bahauddin Zakaruya University, Multan, Pakistan.
- **External Evaluator**, Dr. Michalis Tsatiris (Democritus University of Thrace, Orestias, Greece) dossier for promotion to Assistant Professor, 2013.
- **External Evaluator**, Dr. Vassiliki Dimou (Democritus University of Thrace, Orestias, Greece) dossier for promotion to Assistant Professor, 2013.
- **External Evaluator**, Dr. Konstantinos Kakavas (Technological Educational Institute – Larissa, Greece) dossier for promotion to the Applications Professor's rank, 2013.
- **External Evaluator**, Dr. Vassiliki Kazana (Technological Educational Institute – Kavala, Greece) dossier for promotion to Professor's rank, 2014.
- **External Evaluator**, Dr. Petros Ganatsas (Aristotle University – Thessaloniki, Greece) dossier for promotion to the Associate Professor's rank, 2014.
- **External Evaluator**, Dr. Panayiotis Lefakis (Aristotle University – Thessaloniki, Greece) dossier for promotion to the Associate Professor's rank, 2015.

12. AWARDS AND DISTINCTIONS

(a) Awards for Teaching (indicate name of award, awarding organizations, date):

- Nominated in 1996 for the Faculty of Graduate Studies Teaching Prize.

(b) Awards for Scholarship (indicate name of award, awarding organizations, date):

- Research Award for Foreign Specialists. Japanese Ministry of Agriculture, Forestry and Fisheries, Tsukuba, Japan, 1999.
- Scholarship for Academic Excellence. National Board of Scholarships, Aristotelian University of Thessaloniki, Thessaloniki, Greece, 1980-1981.
- N.C. Brown Scholarship Award, State University of New York/College of Environmental Science and Forestry, Syracuse, N.Y., U.S.A., 1984-1985.
- Research Fellowship, SUNY/Research Foundation, U.S.A., 1982-1983.
- Research Fellowship, National Science Foundation, U.S.A. 1983-1986.

(c) Awards for Service (indicate name of award, awarding organizations, date):

(d) Other Awards:

- Elected **Fellow** of The Institute of Wood Science in 1993.
- Elected **Fellow** of the International Academy of Wood Science in 2004.
- Elected **Fellow** of the Institute of Materials, Metals and Minerals, 2012

THE UNIVERSITY OF BRITISH COLUMBIA
Publications Record

SURNAME: AVRAMIDIS

FIRST NAME: Stavros

Initials: Σ.Α.

Date: January 2016

1. REFEREED PUBLICATIONS

(a) Journals

Fu, Z., Avramidis, S., Zhao, J, Cai, Y. Artificial Neural Network Modeling for Predicting Elastic Strain of White Birch Disks during Drying. *Drying Technology* (submitted Jan 2016)

Taghiyari, H.R and Avramidis, S. Effect of Nanosilver-Impregnation and Sample Size on Specific Gas Permeability in Heat-Treated Solid Woods. *European Journal of Wood and Wood Products* (submitted 15SEP2015).

Emaminasab, M., Tarmian, A., Oladi, R., Pourtahmasi, K., Avramidis, S. Air and liquid permeability of poplar tension wood and normal wood in relation to ray and vessel properties

Zhan, J-F and **Avramidis, S.** Impact of Transverse Dimensions on Residual Stresses and Shape Deformations of Kiln-dried and Thermally Post-treated Larch Wood. *Holzforschung* (submitted Aug. 2015).

Panagiotidis K., Lazarescu, C. Hart, F. Mansfield, S. and **Avramidis, S.** Artificial Neural Network Modeling for Wood Species Identification by Near-Infrared Spectroscopy *International Wood Products Journal* (2nd review).

Emaminasab, M., Tarmian, A., Pourtahmasi, K., Avramidis, S. Improving the permeability of Douglas-fir containing compression wood by *Pysisporinus vitreus* and *Xylaria* spp. *International Wood Products Journal*, (in press).

Wallace, J., and Avramidis, S. Impact of Airflow on Hem-fir Kiln Drying. *Drying Technology* (in press).

Sohi, A., Uzunovic, A. and **Avramidis, S.** Ultrasonic Phytosanitation of Pinewood Nematode Infected Wood. *MADERAS* (in press).

a.152) Demertzis, K., Iliadis, L., **Avramidis, S.** and Y. El-Kassaby. Machine learning use in predicting interior spruce wood density utilizing progeny test information. *Neural Computing and Applications*. DOI 10.1007/s00521-015-2075-9

a.151) **Avramidis, S.** Dielectric properties of four softwood species at low-level radio frequencies for optimized heating and drying. *Drying Technology* DOI 10.1080/07373937.2015.1072719

a.150) Zhan, J-F and **Avramidis, S.** Needle Fir Wood Modified By Surface Densification and Post-Thermal Treatment: Hygroscopicity and Swelling Behavior. *European J. of Wood and Wood Prod.* DOI: 10 1007_s00107-015-0969-y

a.149) Lube, V, Lazarescu, C., Mansfield, S., and **Avramidis, S.** 2015. Wood Microfibril Angle Variation in Drying. *Holzforschung*. DOI: 10.1515/hf-2014-0334,

a.148) Bedelea, B., Lazarescu, C. and **S. Avramidis.** 2015. Predicting RF Heating Rate During Pasteurization of Green Softwoods Using Artificial Neural Networks and Monte Carlo Method. *Wood Research J.*, 60(1): 83-94

a.147) Lazarescu, C., Breuil, C. and S. Avramidis. 2015. Phytosanitation of mountain pine beetle infected lodgepole pine using dielectric fields at radio frequencies *MADERAS*, 17(2): 221-228.

- a.146) Hilde, C., Woodward, R., **Avramidis, S.** and Hartley, D.I. 2014. The Acoustic Properties of Water Submerged Lodgepole Pine (*Pinus contorta*) and Spruce (*Picea spp.*) wood and their suitability for use as musical instruments. *Materials*, 7(8): 5688-5699.
- a.145) Wada, N., **Avramidis, S.** and L. Oliveira. 2014. Internal moisture evolution in timbers exposed to ambient conditions following kiln drying. *European Journal of Wood and Wood Products*, 72(3): 377-384.
- a.144) Rorhbach, K., Oliveira, L. and **Avramidis, S.** 2014. Drying Schedule Structure and Subsequent Post-Drying Equalization Effect on Hemlock Timber Quality. *International Wood Products Journal*, 5(1): 55-64.
- a.143) Lazarescu, C., Panagiotidis K. and **Avramidis, S.** 2014. Color variation of stained wood products in relationship with near infrared spectroscopy scans. *European Journal of Wood and Wood Products*, 72(1):81-85
- a.142) Iliadis, L., Mansfield, S.D., **Avramidis, S.** and El-Kassaby, Y. 2013. Predicting Douglas-fir Wood Density by Artificial Neural Networks Using Progeny Testing Information. *Holzforschung*, 67(7): 771-777.
- a.141) Tekleyohannes, AT and **S. Avramidis.** 2013. Golden ratio based scaling relations in the structure and transversal formations of growth rings. *International Wood Products Journal*, 4(2): 89-94
- a.140) Iliadis, L., Tachos, S., **Avramidis, S.** and S.D. Mansfield. 2013. Hybrid e-Regression and validation Soft Computing techniques: The case of wood Dielectric Loss Factor. *Neurocomputing*, 109: 33-39
- a.139) Lazarescu, C., Bedeleian, B. and **Avramidis S.** 2012. Heating characteristics of softwoods in a high frequency field. *ProLigno*, 8(4): 18-26.
- a.138) Lazarescu, C. and **S. Avramidis.** 2012. Heating characteristics of western hemlock in a high frequency field. *European Journal of Wood and Wood Products*, 70(4): 489-496
- a.137) Tekleyohannes, AT and **S. Avramidis.** 2012. Two-level System Dynamical Coarse-graining of Annual Rings, *Wood Science and Technology*, 46(1-2): 473-485
- a.136) 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(5): 551-556.
- a. 135) Abubakari, A., **Avramidis, S.** and L. Oliveira. 2012. Impact of radio frequency heating pre-treatment on the kiln drying characteristics of sub-Alpine fir. *European Journal of Wood and Wood Products*, 70(1-3): 245-251.
- a.134) 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(1-3): 61-67
- a.133) 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.
- a.132) Lazarescu, C., Dale, A., Uzunovic, A., Breuil, C. and **S. Avramidis.** 2011. Radio frequency heating pasteurization of pinewood nematode infected wood. *European Journal of Wood and Wood Products.* 69(4):573-578.
- a.131) Watanabe, K., Mansfield, S. and **S. Avramidis.** 2011. Application of near infrared spectroscopy for moisture-based sorting of green hem-fir timber. *Wood Science Journal* 57(4): 288-294.
- a.130) Mansfield, S., Kang ,K-Y., Iliadis, L., Tachos, S., and **S. Avramidis.** 2011. Predicting the strength of *Populus spp.* clones using artificial neural networks and ϵ -regression support vector machines (ϵ -rSVM). *Holzforschung*, 65(6): 855-863.

- a.129) 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.
- a.128) 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
- a.127) 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
- a.126) Lazarescu, C. and **S. Avramidis**. 2011. Radio frequency heating kinetics of softwood logs. *Drying Technology* 29(6): 673-681.
- a.125) Watanabe, K., Abubakari, A., Lazarescu, C. and **S. Avramidis**. 2011. Softwood heating in radio frequency fields. *European Journal of Wood and Wood Products*, 69(2): 295-301.
- a.124) Elustondo, D, Oliveira, L and **S. Avramidis**. 2010. New Methodology to Optimize Sorting in Wood Drying. *MADERAS*, 12(2): 79-91.
- a.123) Lazarescu, C., **Avramidis, S.** and L. Oliveira. 2010. Shrinkage Response to Tensile Stresses in Wood Drying III. Stress-Tensile Set Correlation in Short Pieces of Lumber. *Drying Technology*, 28(6): 745-751.
- a.122) Lazarescu, C., **Avramidis, S.** and L. Oliveira. 2010. Modeling Shrinkage Response to Tensile Stresses in Wood Drying II. Stress - Shrinkage Correlation in Restrained Specimens. *Drying Technology*, 28(2): 196-202.
- a.121) 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.
- a.120) 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(2): 253-268.
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