

CURRICULUM VITAE

Pei-Yu Kuo

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Education	Ph.D., Faculty of Forestry, University of Toronto, Canada	2010 -
	Thesis: Develop and Characterize an Extractive-based Bio-Epoxy Resin from Beetle Infested <i>Pinus contorta</i> Bark	present
	M.S., School of Forestry and Resource Conservation, National Taiwan University, Taiwan	2006-2008
	Thesis: Basic Properties of Wood Plastic Composites Made from Recycled Materials	
	B.S., School of Forestry and Resource Conservation, National Taiwan University, Taiwan	2002-2006
	Thesis: Plantation Density and Thinning Effects on the Tracheid Length and Maturing Age of Japanese-cedar Grown in Taiwan	
Awards and Honors	1 st Place of NIPMMP conference (400 CAD)	2014
	Doctoral Completion Award (~27,000 CAD)	2014
	SGS Conference Grant (300 CAD)	2013
	Louie J. Nozzolillo Fellowship (~7,000 CAD)	2013
	1 st Place of NIPMMP conference (400 CAD)	2012
	1 st Place of 12 th International Conference of Biocomposites Poster Presenter (400 CAD)	2012
	John and Rosamond M. Gillies Graduate Fellowship (~12,500 CAD)	2012
	2 nd Place of U of T 3rd Annual Forest Biomaterials Science Research	2011
	Taiwan Studying Abroad Scholarship (~ 32,000 USD)	2010
	Valediction of School of Forestry and Resource Conservation	2008
	Chinese Forestry Association Scholarship (~20,000 NTD)	2007
	Education and Culture Foundation Tian-Sin Chen Scholarship (~20,000 NTD)	2005
	Education and Culture Foundation Hai Sun Scholarship (~20,000 NTD)	2004
	National Taiwan University Presidential Award (~14,000 NTD)	2004-06
Working Experience	Teaching Assistant (at University of Toronto)	2012–2014
	Course: Sustainable forest products	
	Research Assistant (at National Taiwan University)	2008-2010

Publications in Journals

- (1) **Kuo, P. Y.**, N. Yan, M. Sain (2014) Synthesis and Characterization of an Extractive-based Bio-Epoxy Resin from Beetle Infested *Pinus contorta* Bark. *Green Chemistry*. 16 (7), 3483 - 3493
- (2) **Kuo, P. Y.**, N. Yan, M. Sain (2013) Influence of cellulose nanofibers on the curing behavior of epoxy/amine systems. *European Polymer Journal*. 49(12):3778-3787.
- (3) **Kuo, P. Y.**, H. C. Hsueh, J. H. Chen, S. Y. Wang and S. F. Lo (2010) Mechanical Properties and Electromagnetic Shielding Efficiency of Charcoal-wood-plastic Composites and Charcoal-plastic Composites. *Forest Products Industries*. 29(2):99-107.
- (4) **Kuo, P. Y.**, H. C. Hsueh, J. H. Chen, S. Y. Wang and S. F. Lo (2010) Effects of Material Composition on Water Absorption and Thickness Swelling of Wood-powder Polypropylene Composites. *Forest Products Industries*. 29(1):13-23.
- (5) **Kuo, P. Y.**, J. H. Chen, S. Y. Wang and S. F. Lo (2009) Effects of Manufacturing Processes on the Mechanical Properties of Wood Plastic Composites. *Forest Products Industries*. 29(1):13-23. *Forest Products Industries*. 28(3):203-213.
- (6) **Kuo, P. Y.**, S. Y. Wang, J. H. Chen, H. C. Hsueh, and M. J. Tsai (2009) Effects of material compositions on the mechanical properties of wood-plastic composites manufactured by injection molding. *Materials and Design* 30(9): 3489-3496.
- (7) S. F. Lo, S. Y. Wang, **P. Y. Kuo**, K. K. Chen, C. C. Kuo, M. T. Lin and M. J. Tsai (2008) Relationships between impregnated preservative quantity and retention of active threshold ingredients of *Cryptomeria japonica* wood by using vacuum pressing treatment. *Journal of the Experimental Forest of National Taiwan University*. 22(2):61-74.
- (8) Chen, J. H., H. C. Shiue, **P. Y. Kuo**, S. Y. Wang and F. C. Lin (2006) Effects of moisture content and density on the compression strength parallel to grain direction of Japanese-cedar wood. *Chinese Forestry Journal*. 39(3):367-376.
- (9) Chan, M. H., Y. S. Tseng, M. J. Tsai, Y. C. Kao, C. W. Lee, **P. Y. Kuo** and Y. R. Huang (2005) Property evaluation of the plantation trees (Japanese-cedar) by using three nondestructive testing techniques. *Journal of the Experimental Forest of National Taiwan University*. 19(3):207-216.

Publications in Conference

- (1) **Kuo, P.Y.**, Cuinat-Guerraz, N., Yan, N., Hubert, P., Dumont, M.J., and Sain, M.(2014) "Development of Bio-composites from Flax and Bio-Epoxy Monomers" NIPMMP HQP & Scientific Network Conference University of Toronto, June 17-18
- (2) **Kuo, P. Y.**, M. Sain and N. Yan (2013) Synthesis and Characterization of a Novel Bio-based Epoxy Resin from Bark Extractive. Oral presented at BIOPOL2013 Conference, Rome, Italy.
- (3) Ding, W. D., **Kuo, P. Y.**, T. Kuboki, C. B. Park and M. Sain (2013) Foaming of Cellulose Fiber Reinforced Polylactic Acid Composites: the Effect of Cellulose Fiber Type. Paper accepted at ANTEC Conference.
- (4) Phillips, S., **Kuo, P.Y.**, Lessard, L, Huberta, P. and Sain, M. and Yan, N. (2013) Development of Multi-Scale Biocomposites from Flax, Nanocellulose and Epoxy by Resin Infusion. NIPMMP conference in Montreal. Jun. 11-12

- (5) **Kuo, P. Y.**, M. Sain and N. Yan (2012) Synthesis and Properties of Bark-Derived Epoxy Resins. Oral presented at Bark Bio-refinery Conference.
- (6) Phillips, S., **Kuo, P. Y.**, Lessard, L, Huberta, P. and Sain, M. and Yan, N. (2012) Characterization of Flax Fabrics and Nanocellulose Modified Epoxy for the Development of Multi-scale Biocomposites by Resin Infusion. *NIPMMP conference in Toronto.*
- (7) Phillips, S., **Kuo, P. Y.**, Lessard, L, Huberta, P. and Sain, M. and Yan, N. (2012) Characterization of Flax Fabrics and Nanocellulose Modified Epoxy for the Development of Multi-scale Biocomposites by Resin Infusion. *The 12th International Conference on Biocomposites*
- (8) **Kuo, P. Y.** and Sain M. (2011) Cellulose Nano-fiber Reinforced Epoxy Composites Design and Manufacturing” *NIPMMP conference in Montreal.*
- (9) Phillips, S., Demaria, C, **Kuo, P. Y.**, Lessard, L, Huberta, P. and Sain, M. (2011) Multi-Scale Hybrid Composites by Resin Film Infusion” *NIPMMP conference in Montreal.*
- (10) S. Y. Wang, H. C. Hsueh, **P. Y. Kuo**, M. J. Tsai and F. C. Lin (2010) Effects of material compositions on the creep properties of wood-plastic composites manufactured by injection molding. *World Conference on Timber Engineering.*
- (11) **Kuo, P. Y.**, H. C. Shiue, J. H. Chen and S. Y. Wang (2009) Effects of weathering on the surface properties of wood-plastic composites manufactured by injection molding. *Post presented at Cross-strait Forest Products Technology Symposium.*
- (12) Wang, S. Y., **P. Y. Kuo**, J. H. Chen, H. C. Shiue and M. J. Tsai (2009) Effects of material compositions on the mechanical properties of wood plastic composites manufactured by injection molding. *Post presented at 59th Annual Meeting of the Japan Wood Research Society Matsumoto.*
- (13) **Kuo, P. Y.**, T. C. Chang, S. F. Lo, S. Y. Wang and W. H. Sun (2009) Applications of FTIR on differentiate bamboo charcoal species. *Post presented at Chinese Forest Products Association Conference.*
- (14) Wang, S. Y., M. J Tsai, C. J. Lin and **P. Y. Kuo** (2009) Inspection technology and quality control of preservative content in historical wooden building. *Oral presented at Preservation of Historic Building Materials Conference.*
- (15) **Kuo, P. Y.**, J. H. Chen and S. Y. Wang (2007) Plantation density and thinning effects on the tracheid length and maturing age of Japanese-cedar grown in Taiwan. *Oral presented at the D5 IUFRO Conference.*