

CURRICULUM VITAE

Le Xuan Phuong
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PROFESSIONAL INTERESTS

Wood science and technology, Wood composites, Wood identification, Cleaner production, Bamboo utilization, Sustainable forest management, Wood product value chains.

EDUCATION / DEGREES

Bachelor of Wood Processing (B.Sc.): Vietnam National University of Forestry (VNUF), 1992-1997

Master of Wood Processing (M.Sc.): Vietnam National University of Forestry, 1997-2001

Doctor of Biomaterial Sciences (Ph.D.): The University of Tokyo, Japan, 2003-2007

Participatory Forest Management Course (in the SUTROFOR MSc program at Copenhagen University, Denmark: 11/2009-1/2010 (3 months))

Proceeding Ability of Policy-Making for Sustainable Forest Management: JICA training course (01 month: 9/2019-10/2019) in Tokyo, Japan

WORKING EXPERIENCE

- 4.2019 – Now: Vice Director of International Cooperation Division; VNUF
- 1.2018 - 3.2019: Dean of Wood industry college, VNUF
- 8.2016 - 1.2018: Vice Director of International Cooperation Division; VNUF
- 11.2013 - 7.2016: Vice Director of Science - Technology and International Cooperation Division; VNUF
- 11.2009 – 11.2013: Director of Testing Center of Forest Products; Wood Technology Faculty, VNUF
- 10.2015 – Present: Associate Professor of Forestry, Wood Industry College, VNUF
- 11.1997 – 10.2015: Lecturer, Wood Technology Faculty, VNUF.

TEACHING EXPERIENCE

Undergraduate Courses: Wood-based panels technology; Wood composites materials; Cleaner production; Wood sciences.

Master Courses: Wood-based materials; Wood composites materials; Wood modification; Forest utilization and wood processing.

From 10.2017-11.2017: Visiting professor at Gottingen university, Germany and teach subject Forest utilization and wood processing for Tropical International Forestry Master Students.

Webinar on Vietnamese bamboo production for master students of Technical University of Dresden, Germany since 2018.

Ph.D Courses: Advanced wood composites.

In 2017: I have successfully supervised one German Master student at Technical university of Dresden (TUD) with the title “Quality criteria of *Dendrocalamus barbatus* raw material and products along the bamboo value chain in Thanh Hoa and Hanoi province, Vietnam – present state and prospects” (Defend result on 19.1.2018: overall grade: 1.1).

REPRESENTATIVE GRANTS

No.	Project title	Role	Sponsor	Duration
1	Rice straw technology for furniture making and building materials	Principle investigator	01C-03/04-2010-2; Hanoi DOST	2010-2011
2	Building a database of rapid identification of wood names, for common wood popularly traded in Hanoi city to serve inspection, monitoring, and controlling by Hanoi Forest Protection Department	Principle investigator	Hanoi Department of forest protection	2019
3	Consultancy for evaluation of the status of the wood processing industry in Vietnam	Team leader/ Principle investigator	USAID Green Annamites project	2020
4	Study on feasible technical solutions to increase the efficiency in the processing of Acacia plantations in Vietnam	Principle investigator	VIFOREST/ ITTO-PD815/16 Rev.2 (I)	2018-2020
5	Develop national regulations on PU paints for wood	Principle investigator	VNFOREST/ MARD	2018-2020
6	Review on DNA analysis on wood identification and its origin	Principle investigator	VNUF	2014
7	Current status of quality control at WPC line of PCC1 company and solutions to improve WPC	Principle investigator	VNUF	2018
8	Evaluation of flooring qualities from modified veneers	Principle investigator	Sub-project. State Project KC.07.03/11-15	12/2013- 11/2014
9	New mechanism FS for REDD+ through revegetation at denuded lands and woody biomass-based power generation in Son La province, Vietnam	Principle investigator	GEC and Sumitomo Forestry Co. Ltd.	9/2011- 3/2012
10	Bilateral Offset Credit Mechanism Feasibility Study REDD+ through Forest Management Scheme, and Biomass-based Power Generation using Timber Industry Waste	Principle investigator	GEC and Sumitomo Forestry Co. Ltd.	6/2012- 2/2013
11	Investigation on wood anatomy of column excavated in Doan Mon gate, Hanoi	Principle investigator	Hanoi citedal conservation center	2013
12	Utilize agro-forestry wastes to produce substrate for lacquer wares	Secretary	MARD	2009-2010
13	Establishing cleaner production model for wood processing and rattan furniture factories to protect environment and promote international integration	Secretary	MARD	2011-2012
14	Establishing cost norms of labor, material and energy in wood industry	Secretary	MARD	2013
15	Process development as well as investigations to steaming and roast processes of selected bamboo species of Vietnam	Coordinator/ Investigator	GZ: WA 1540/11-1 DFG - Germany	3/2010- 2/2013

No.	Project title	Role	Sponsor	Duration
16	Investigations into the thermal and hygro-thermal modification of fast growing wood species <i>Acacia mangium</i>	Coordinator/ Investigator	VNM 09/004 BMBF – Germany	11/2009- 10/2011
17	Survey the current status of conservation of waterlogged wood, test their properties and propose the conservation solutions for exposed artifacts	Co- Investigator	Trust Fund UNESCO-Japan (JFIT 536 VIE4001)	2011
18	東アジア地域の木材利用の歴史から探る 持続的社会の構築 (Sustainable community considered from history of wood use in East Asia)	Co- Investigator	ミッション 4 (循環型資源・材 料開発) Kyoto University	2012
19	Exchange Program on Conservation of Archaeological Waterlogged woods in Vietnam under “Networking Core Centres for International Cooperation on Conservation of Cultural Heritage” project	Co- Investigator	Agency of Cultural Affairs, Government of Japan	8/2013- 3/2014
20	Establishing a model of environmental management and pollution treatment model for bamboo and rattan export handicraft villages	Co- Investigator	MARD	2011-2012
21	Application of nanomaterials (SiO ₂) to modify flooring to improve the strength and quality of timber from fast-growing plantation	Co- Investigator	Hanoi DOST	2011-2012
22	Establishment of a Training Center for Nature Conservation toward Ethnic Minority People at Vietnam National University of Forestry	Coordinator/ Investigator	Keidanren Nature Conservation Fund	2014-2016
23	Develop quality standards for export wooden furniture	Co- Investigator	MARD	2016-2017
24	Study on wood modification and wood preservation technologies to improve wood strength and dimensional stability for producing high-quality furniture and flooring	Co- Investigator	MARD	2017-2019
25	Weathering resistance and finishing ability of wood modified by rosin/micro boron	Co- Investigator	Nafosted/ MOST 106.99-2018.16	2018-2021
26	Foreign Training of Forestry Personnel (Ministry of Environment, Forest and Climate Change, Government of India)	Coordinator/ Trainer	IGNFA IFS Probationers/ Academic & Professional Studies Abroad (APSA)	2019-2023
27	FOREST – Future ORiented chEmiSTry	Coordinator	Erasmus+KA02 619116-EPP-1- 2020-1-SE- EPPKA2-CBHE- JP	2021-2024

PEER REVIEW JOURNAL PAPERS

No.	Title	Authors	Publication	Years
I	International journals			
1	ベトナムの森林と造林樹種概観	Le Xuan Phuong , 信田 聡 (翻案)	Wood Industry	2003
2	Effect of heat treatment on bending strength and decay resistance of <i>Styrax tonkinensis</i> wood	Le Xuan Phuong , 信田 聡, 斎藤 幸恵, 桃原 郁夫	Wood Preservation	2006
3	Effects of heat treatment on brittleness of <i>Styrax tonkinensis</i> wood	Le Xuan Phuong , Satoshi Shida, Yukie Saito	Journal of Wood Science	2007
4	Determination of the accessible hydroxyl groups in heat-treated <i>Styrax tonkinensis</i> (Pierre) Craib ex Hartwich wood by hydrogen-deuterium exchange and ² H NMR spectroscopy	Le Xuan Phuong , Masato Takayama, Satoshi Shida, Yuji Matsumoto and Tetsuo Aoyagi	Holzforschung	2007
5	From plantation forestry to the pulp and paper industry: A case study of Vietnam	Herman Hidayat, Yasuyuki Kono, Le Xuan Phuong	South Pacific Studies	2012
6	The effects of thermal modification on the properties of two Vietnamese bamboo species, Part I: Effects on physical properties	Cong Trung Nguyen, Andre Wagenführ, Le Xuan Phuong , Vu Huy Dai, Martina Bremer, Steffen Fischer	Bioresources	2012
7	Eigenschaftsveränderungen von <i>Acacia mangium</i> aus Vietnam durch thermische Modifikation	Trung Cong Nguyen, André Wagenführ, Le Xuan Phuong , Vu Huy Dai	Holztechnologie	2012
8	Effects of Thermal Modification on the Properties of Two Vietnamese Bamboo Species. Part II: Effects on Chemical Composition	Martina Bremer, S Fischer, TC Nguyen, A Wagenführ, Le Xuan Phuong , VH Dai	Bioresources	2013
9	Effect of rice straw softening treatment time and mixing ratio between <i>Acacia mangium</i> Willd wood and rice straw on the quality of mixed particleboard	Tran Van Chu, Le Xuan Phuong	Journal of Forest and Environmental Science	2015
10	Higher Education in Wood Science in Europe and worldwide Part 27:	Marius C. Barbu, Le Xuan Phuong	Holztechnologie 60(2): 55 - 58	2019

No.	Title	Authors	Publication	Years
	Vietnam (1)			
11	Higher Education in Wood Science in Europe and worldwide Part 27: Vietnam (2)	Marius C. Barbu, Le Xuan Phuong	Holztechnologie 60(3): 50 - 55	2019
II	Vietnamese journals			
12	Characteristics of waterlodged wood poles excavated near Doan Mon gate, Thang Long citadel	Le Xuan Phuong	Forestry science and technology journal	2014
13	Study on manufacturing composite waste tyre	Le Xuan Phuong Nguyen Minh Hung	Science and technology journal of agriculture & rural development	2015
14	The effectiveness of fire retardant of two formulars: Bo compound and urea phosphate	Tran Van Chu Le Xuan Phuong	Science and technology journal of agriculture & rural development	2015
15	Simultaneous effect of three factors: Concentration, impregnating time and pressure to quality of wood of <i>Acacia mangium</i> x <i>Acacia auriculiformis</i> modified by nano SiO ₂ solution	Nguyen Van Thiet Le Xuan Phuong	Science and technology journal of agriculture & rural development	2015
16	Effects of heat treatment conditions on the color change of veneer from <i>Styrax tonkinensis</i> used for producing reconstituted decorative veneer	Tran Van Chu Le Xuan Phuong	Science and technology journal of agriculture & rural development	2015
17	Effects of pressing conditions on the quality of fire – retardant plywood from <i>Acacia hybrid</i>	Tran Van Chu Le Xuan Phuong	Science and technology journal of agriculture & rural development	2015
18	Chemical structure change of <i>Acacia mangium</i> wood after heat treatment	Le Xuan Phuong Tran Van Chu	Science and technology journal of agriculture & rural development	2015
19	Physical and mechanical properties of flooring from chemically modified veneer	Le Xuan Phuong Nguyen Hong Minh	Forestry science and technology journal	2015
20	Effect of hydro-thermal treatment on technological properties of <i>Eucalyptus urophylla</i> S.T. Blake wood	Nguyen Van Dien, Le Xuan Phuong	Forestry science and technology journal	2015
21	Applying A.I. in quickly identifying timber species using the smartphone	Le Xuan Phuong , Nguyen Thi Loan, Vu Manh Tuong, Dong Thanh Hai	Vietnam Science and Technology Journal	2020

PROCEEDINGS OF CONFERENCE

No.	Title	Authors	Publication	Years
1	Effects of heat treatment on both mould growth and bending strength using <i>Styrax tonkinensis</i>	Le Xuan Phuong, Satoshi Shida, Yukie Saito	3 rd International Symposium on Surfacing and Finishing of Wood IUFRO Division 5	2004
2	Bending strength, color and wettability on the surface of heat-treated <i>Styrax tonkinensis</i> wood	Le Xuan Phuong, Satoshi Shida, Yukie Saito	IAWPS 2005 International Symposium on Wood Science and Technology	2005
3	Resource potential of forest plantation for total utilization in Vietnam	Eiji Togawa, Mario Tonosaki, Le Xuan Phuong, Vu Huy Dai, Koichi Yamamoto	Biomass Asia Workshop	2008
4	Change of the properties of Vietnamese bamboo species by thermal modification	Martina Bremer, Nguyen Trung Cong, Michael Scholz, Michael Rosenthal, Steffen Fischer, André Wagenführ, Claus-Thomas Bues, Le Xuan Phuong, Vu Huy Dai	9th World Bamboo Congress Belgium	2012

BOOKS

1. Tran Van Chu, Trinh Hien Mai, **Le Xuan Phuong** (2013) Wood Modification. Agriculture Publishing House (In Vietnamese).
2. Do Thi Ngoc Bich, **Le Xuan Phuong**, Latsamy Boupha, Heng Chamroeun (2010) Non Timber Forest Products Processing and Marketing. Vietnam National University of Forestry.
3. Pham Van Chuong, Nguyen Nhat Chieu, Duong Van Tai, Nguyen Van Quan, Do Thi Ngoc Bich, Vu Huy Dai, Hoang Tien Duong, Vo Thanh Minh, Nguyen Thi Minh Nguyet, **Le Xuan Phuong** (2013). Handbook of Technology and Equipments for Harvesting and Processing of Forest Products. Agriculture Publishing House (In Vietnamese).
4. Dong Thanh Hai, Nguyen Hai Hoa, Phung Van Khoa, Hoang Van Sam, **Le Xuan Phuong**, Tran Thi Thu Ha (2016) Basics of natural resources conservation. Agriculture Publishing House (In Vietnamese).
5. Bui The Doi (Ed.), Tran Thi Thu Ha, Hoang Van Sam, Ngoc Duy Bach, Nguyen Hai Hoa, Vu Tien Thinh, Le Xuan Truong, **Le Xuan Phuong** (2018) Climate Change and REDD+. Agriculture Publishing House (In Vietnamese).
6. FRIM (2019) Timber species of ASEAN countries. Forest Research Institute Malaysia

SOCIETY MEMBERSHIP

- + International Academy of Wood Science (IAWS) Affiliate member: Contact person of VNUF since 2016.
- + Member of Japan Wood Research Society since 2003.
- + Deputy Coordinator of International Union of Forest Research Organizations (IUFRO) Division 5: RG 5.05 Composite and reconstituted wood products, since 2018.
- + Member of National Standard Technical committee of wood-based panels (TCVN/TC89) since 2016.
- + Member of National Standard Technical committee of Timber structures (TCVN/TC165) since 4.2019.
- + Member of Editorial Board of Journal of Forestry Science and Technology (ISSN 1859-3828)

Hanoi, January 12th, 2021

Le Xuan Phuong