

# CURRICULUM VITAE

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## PROFESSIONAL INTERESTS

Wood science and technology, Wood composites, Wood identification, Cleaner production.

## EDUCATION / DEGREES

Bachelor of Wood Processing (B.Sc): Vietnam National University of Forestry, 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

## WORKING EXPERIENCE

11.2013 – Present: Vice Director of Science - Technology and International Cooperation Division; Vietnam National University of Forestry (VNUF)

11.2009 – 11.2013: Director of Testing Center of Forest Products; Wood Technology Faculty, Vietnam National University of Forestry (VNUF)

10/2015 – Present: Associate Professor of Forestry, National Council of Professor Title

1997 – 10.2015: Lecturer, Wood Technology Faculty, Vietnam National University of Forestry (VNUF)

## TEACHING EXPERIENCE

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

Master Courses: Wood based materials; Wood composites materials; Wood modification.

Ph.D Courses: Advanced wood composites.

## REPRESENTATIVE GRANTS

| TT | 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  | Review on DNA analysis on wood identification and its origin      | Principle investigator | VNUF                                      | 2014            |
| 3  | Evaluation of flooring qualities from modified veneers            | Principle investigator | Sub-project. State Project KC.07.03/11-15 | 12/2013-11/2014 |

| TT | Project title  | Role                   | Sponsor   | Duration        |
|----|--|------------------------|---|-----------------|
| 4  | 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   |
| 5  | 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   |
| 6  | Investigation on wood anatomy of column excavated in Doan Mon gate, Hanoi  | Principle investigator | Hanoi citedal conservation center               | 2013            |
| 7  | Utilize agro-forestry wastes to produce substrate for lacquer wares  | Secretary              | MARD  | 2009-2010       |
| 8  | Establishing cleaner production model for wood processing and rattan furniture factories to protect environment and promote international integration                                      | Secretary              | MARD  | 2011-2012       |
| 9  | Establishing cost norms of labor, material and energy in wood industry   | Secretary              | MARD  | 2013            |
| 10 | Process development as well as investigations to steaming and roast processes of selected bamboo species of Vietnam  | Coordinator            | GZ: WA 1540/11-1<br>DFG - Germany               | 3/2010-2/2013   |
| 11 | Investigations into the thermal and hygro-thermal modification of fast growing wood species <i>Acacia mangium</i>  | Coordinator            | VNM 09/004<br>BMBF – Germany                    | 11/2009-10/2011 |
| 12 | 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            |
| 13 | 東アジア地域の木材利用の歴史から探る持続的社会的構築 (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            |
| 14 | 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   |
| 15 | Establishing model of environmental management and pollution treatment model for bamboo and rattan export handicraft villages  | Co-Investigator        | MARD  | 2011-2012       |
| 16 | Application of nano materials (SiO <sub>2</sub> ) to modify flooring to improve the strength and quality of timber from fast growing plantation  | Co-Investigator        | Hanoi DOST                                      | 2011-2012       |

PEER REVIEW JOURNAL PAPERS

| No.       | Title  | Authors   | Publication                                 | Years |
|-----------|--|---|---|-------|
| <b>I</b>  | <b>International journals</b>  |   |   |       |
| 1         | ベトナムの森林と造林樹種概観   | <b>Le Xuan Phuong</b> , 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  | <b>Le Xuan Phuong</b> , 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   | <b>Le Xuan Phuong</b> , 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 <sup>2</sup> H NMR spectroscopy | <b>Le Xuan Phuong</b> , 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, <b>Le Xuan Phuong</b>  | 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, <b>Le Xuan Phuong</b> , 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, <b>Le Xuan Phuong</b> , 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, <b>Le Xuan Phuong</b> , 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, <b>Le Xuan Phuong</b>   | Journal of Forest and Environmental Science | 2015  |
| <b>II</b> | <b>Vietnamese journals</b>   |   |   |       |
| 10        | Characteristics of waterlogged   | <b>Le Xuan Phuong</b>   | Forestry science and                        | 2014  |

|    |  |   |   |      |
|----|--|---|---|------|
|    | wood poles excavated near Doan Mon gate, Thang Long citadel  |   | technology journal  |      |
| 11 | Study on manufacturing composite waste tyre  | <b>Le Xuan Phuong</b><br>Nguyen Minh Hung | Science and technology journal of agriculture & rural development | 2015 |
| 12 | The effectiveness of fire retardant of two formulaes: Bo compound and urea phosphate   | Tran Van Chu<br><b>Le Xuan Phuong</b>     | Science and technology journal of agriculture & rural development | 2015 |
| 13 | Simultaneous effect of three factors: Concentration, impregnating time and pressure to quality of wood of <i>Acacia mangium x Acacia auriculiformis</i> modified by nano SiO <sub>2</sub> solution | Nguyen Van Thiet<br><b>Le Xuan Phuong</b> | Science and technology journal of agriculture & rural development | 2015 |
| 14 | 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<br><b>Le Xuan Phuong</b>     | Science and technology journal of agriculture & rural development | 2015 |
| 15 | Effects of pressing conditions on the quality of fire – retardant plywood from <i>Acacia hybrid</i>  | Tran Van Chu<br><b>Le Xuan Phuong</b>     | Science and technology journal of agriculture & rural development | 2015 |
| 16 | Chemical structure change of <i>Acacia mangium</i> wood after heat treatment   | <b>Le Xuan Phuong</b><br>Tran Van Chu     | Science and technology journal of agriculture & rural development | 2015 |
| 17 | Physiscal and mechanical properties of flooring from chemically modified veneer  | <b>Le Xuan Phuong</b><br>Nguyen Hong Minh | Forestry science and technology journal                           | 2015 |

#### 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>   | <b>Le Xuan Phuong</b> , Satoshi Shida, Yukie Saito                               | 3 <sup>rd</sup> 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 | <b>Le Xuan Phuong</b> , 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, <b>Le Xuan Phuong</b> , Vu Huy Dai, Koichi Yamamoto | Biomass Asia Workshop   | 2008  |

## **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 Boupaha, 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).

**December, 2015**

**Le Xuan Phuong**