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PERSONAL DATA

Date of birth: 15 June 1969
Place of Birth: Sta. Cruz, Laguna, Philippines
Nationality: Filipino
Marital status: Married

EDUCATIONAL BACKGROUND

2004 – 2006	Post-Doctoral Fellowship Max Planck Institute of Colloids and Interfaces Potsdam, Germany
1999 - 2002	Doctor of Agriculture major in Forest Products Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan
1997 - 1999	Master of Science major in Forest Products Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan
1989 - 1993	Bachelor of Science in Forestry, Cum laude College of Forestry University of the Philippines Los Baños, Philippines
1982 - 1986	Pedro Guevara Memorial High School Sta. Cruz, Laguna, Philippines
1976 - 1982	Sta. Cruz Central Elementary School Sta. Cruz, Laguna Philippines

EMPLOYMENT

2002 – Present	Associate Professor Department of Forest Products and Paper Science College of Forestry and Natural Sciences University of the Philippines Los Baños, Philippines
2004 – 2006	Post- Doctoral Fellow Department of Biomaterial, Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany
Dec. 2005	Visiting Researcher Biomaterial Physics Laboratory Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan
Oct 2003	Visiting Researcher Biomaterial Physics Laboratory Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan
Oct 2002	Visiting Researcher Biomaterial Physics Laboratory Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan
1996 – 2002	Teaching Fellow Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan
1993 – 1996	Instructor Department of Wood Science and Technology College of Forestry University of the Philippines Los Baños, Philippines
1996	Research Associate Zeta Beta Rho Mussaenda Foundation Diliman, Quezon City
1992-1993	Student Assistant Forest Biological Sciences College of Forestry University of the Philippines Los Baños, Philippines

AWARDS

1. Scientist I – University of the Philippines. 2010 – 2012
2. Research Grant - UPLB Basic Research Program Grantee. 2008
3. Professorial Chair – UP Diamond Jubilee Professorial Chair. 2007 – 2008.

4. Best Researcher – College of Forestry and Natural Resources, University of the Philippines Los Baños. 2008
5. Certificate of Recognition. Forest and Natural Resources Research Society of the Philippines, Inc. 2007.
6. Outstanding Young Scientist Awards. National Academy of Science and Technology, Philippines. 2007.
7. Post-doctoral Fellowship- Max Planck Institute of Colloids and Interfaces 2005 – 2006.
8. International Publication Award - University of the Philippines. 2005.
9. International Publication Award - University of the Philippines. 2005.
10. Research Grant - International Foundation of Science, Sweden. 2003-2004
11. Travel Grant - Biomaterial Physics Laboratory, Graduate School of Bioagricultural Sciences, Nagoya University. 2005.
12. Professorial Chair -The Washington Professorial Chair for the Physical Science. 2003 – 2004.
13. Research grant - International Foundation of Science. 2003 – 2004.
14. Travel grant - Biomaterial Physics Laboratory, Graduate School of Bioagricultural Sciences, Nagoya University. 2004.
15. Travel grant - Biomaterial Physics Laboratory, Graduate School of Bioagricultural Sciences, Nagoya University. 2003.
16. Scholarship- Japan Government Ministry of Education (Monbusho). 1996 – 2002.
17. Plaque of recognition- Top Ten Board Passers of the Philippines. 1994.
18. Guillermo Ponce Endowment. 1990 – 1993.
19. Chancellor's pin. 1993
20. Medal for Academic excellence in the field of Forestry. 1993.

EXPERTISE

Wood Anatomy
 Plant Biomechanics
 Plant Cell wall Mechanics
 Plant Cell wall Chemistry (Cellulose, hemicellulose, lignin)
 UV Spectrophotometry
 X-ray Diffraction
 Scanning Electron Microscopy (with EDXA)
 Transmission Electron Microscopy
 MicroCT scanning
 Biotemplating
 Structure- function relationships of plants
 Growth stress evaluation of plants
 Property evaluation of plantation-grown rattan canes
 Property assessment of fast growing plantation trees

SCHOLARLY OUTPUTS

a. Publication in referred journal

- Abasolo, W., Eder, M., Yamauchi, K., Obel, N., Reinecke, A., Neumetzler, L., Dunlop, J.W.C. Mouille, G., Pauly, M., Höfte, H., and Burgert, I. 2009. Pectin may hinder the unfolding of xyloglucan chains during cell deformation: Implications of the mechanical performance of *Arabidopsis* hypocotyls with pectin alternations. *Molecular Plant*. 2(5): 990 -999.
- Abasolo, W.P. and Lomboy, O.C. 2009. Influence of Growth Rate, Elevation and Sunlight Exposure on the Anatomical and Physico-Mechanical Properties of Plantation- Grown Palasan (*Calamus merrillii* Becc.) Canes. *Phil. Journal of Science*. 138 (1): 55-66.
- Abasolo, W.P., Yoshida, M., Yamamoto, H. and Okuyama, T. 2009. Stress Generation in Aerial Roots of *Ficus elastica* (Moraceae). *IAWA Journal*. 30(2): 216-224.
- Abasolo, W.P. 2008. Analysis of Morphological Traits between Plantation-Grown and Wild Palasan Canes (*Calamus Merrillii* Becc.) using Cluster Analysis. *J. Bamboo and Rattan*. 7(1&2): 91-100.
- Abasolo, W.P. 2007. Property Characterization of Plantation-grown Palasan Canes (*Calamus merrillii* Becc.). *J. Bamboo and Rattan*. 6(3&4): 145-156.
- Abasolo, W.P. 2007. Site-growth characteristics of plantation-grown canes of rattan (Palasan [*Calamus merrillii* Becc]). *The Philippine Agricultural Scientist*. 90(2). 161-167.
- Abasolo, W.P. 2006. Site Conditions and Growth Characteristics of Plantation-grown Palasan Canes (*Calamus merrillii* Becc.). *J. Bamboo and Rattan*. 5(1&2): 15-27.
- Abasolo, W., Yoshida, M., Yamamoto, H. and T. Okuyama. 2005. Influence of cell type on the thermal softening of *Calamus merrillii* Becc. *IAWA Journal*. 26(3): 363-374.
- Abasolo, W., Fernandez, E.C. and W. Liese. 2005. Fiber characteristics of *Gigantochloa levis* and *Dendrocalamus asper* as influenced by organic fertilizer. *Journal of Tropical Forest Science*. 18(1): 121-126.
- Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 2002. Thermal softening of rattan canes. Influence of the hemicellulose-lignin matrix. *Journal of Bamboo and Rattan*,1(4):317-331.
- Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 2002. Influence of heat and loading time on the mechanical properties of *Calamus merrillii* Becc. *Holzforschung*.56(6): 639-647.

Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 2001. Silica in several rattan species. *Holzforschung*.55(6): 595-600.

Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 2000. Microfibril angle determination of rattan fibers and its influence on the properties of the cane. *Holzforschung*.54(4): 437- 442.

Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 1999. Internal stress generation in rattan canes. *IAWA Journal*. 20(1): 45-58.

Yamamoto, H., Kojima, Y., Okuyama, T., Abasolo, W.P. and J. Gril. 2002. Origin of the biomaterial properties of wood related to the fine structure of the multi-layered cell wall. *Transactions of the ASME*. 124: 432 – 440.

b. Book Chapter

Abasolo, W.P. Dizon, J.T. and Nepomuceno, D.N. 2005. Overview of the Laguna Lake Basin. Chapter 1. *In: Ecosystems and People. The Philippine Millennium Ecosystem Assessment (MA) Sub Global Assessment. Environment Forestry Programme. College of Forestry and Natural Resources University of the Philippines Los Baños.* pp. 44-52.

c. Papers presented in international conference

Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 2003. Stress Generation in *Calamus merrillii* Becc. IAWA Pan-American Regional Group Meeting, IAWA Journal. 24(3): 310.

Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 2001. Properties of rattan canes. 4th South and East Asian Countries Non-Timber Forest Products Network (SEANN) Workshop. Sept. 2001. UPLB. College, Laguna, Philippines.

Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 2001. Quality of rattan canes. 3rd International Wood Science Symposium, Uji, Kyoto, Japan.

Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 2001. Chemical properties of several rattan species. 51th Annual meeting of the Japan Wood Research Society, Tokyo University, Tokyo, Japan.

Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 2000. Structure and Properties of Rattan II. (Silica distribution). 50th Annual meeting of the Japan Wood Research Society, Kyoto University, Kyoto, Japan.

Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 1999. Structure and properties of rattan (Microstructure and properties). 49th annual meeting of the Japan Wood Research Society. Tokyo University of Agriculture. Tokyo, Japan.

Abasolo, W. Yoshida, M., Yamamoto, H. and T. Okuyama. 1998. Anatomy and quality of rattan canes. 48th annual meeting of the Japan wood Research Society. Shizuoka University, Shizuoka, Japan.

d. Poster presented in international conference:

Abasolo W., Yamauchi K., Obel N., Goswami L., Pauly M., Burgert I. Enzymatic modification of primary and secondary cell walls – a tool for better insights into the mechanical functions of cell wall polymers. Poster. XVII International Botanical Congress, Austria Center, Vienna, Austria. July 2005.

Abasolo W., Yamauchi K., Obel N., Pauly M., Burgert I. Structure-function relationships of primary cell walls. Poster. Max Planck Institute of Colloids and Interfaces Alumni Meeting. Potsdam, Germany 2005.

CONFERENCES/SEMINARS/CONGRESS ATTENDED

1. 2009 Annual FORESPI Symposium; Ecosystems Research and Development Bureau Auditorium, College, Laguna, Philippines. Dec. 2009.
2. 2008 Annual FORESPI Symposium; Energy, Food and Water: Setting the Forestry and Natural Resource Research Development and Extension Agenda. Elvira Tan Auditorium, PCARRD, Los Baños, Laguna. November 27-28, 2008. Organizer
3. National Bamboo Development Forum. Philippine Trade Training Center, Roxas Boulevard, Pasay City, Philippines. October 22-24, 2008. Organizer
4. When “Non” Means Everything: Rationalizing NTFP Policies, Tackling Philippine Policies on non-timber forest products. University Hotel, UP, Diliman, Quezon City, Philippines. September 20-21, 2007 - Poster Presenter.
5. XVII International Botanical Congress, Austria Center, Vienna, Austria. July 2005 - Poster presenter.
6. Max-Planck Institute of Colloids and Interfaces Alumni Meeting. Potsdam, Germany. May 2005 - Poster presenter.
7. 3rd Bamboo Congress. University of Northern Luzon. Vigan, Philippines. 2004 - Participant.
8. Forest Research Society of the Philippines Annual Meeting. ERDB, Forestry, College, Laguna, Philippines. 2003 - Organizer.
9. Teaching Seminar on Adult Education. DAP. Tagaytay, Philippines. 2003 – Participant.

10. 4th South and East Asian Countries Non-Timber Forest Products Network (SEANN) Workshop, University of the Philippines Los Baños, Laguna, Philippines. 2001 - Paper presenter.
11. 3rd International Wood Science Symposium, Uji, Kyoto, Japan. 2001. Paper presenter.
12. 51st Annual meeting of the Japan Society of Wood Science, Tokyo University, Tokyo, Japan. 2001 - Paper presenter.
13. 50th Annual meeting of the Japan Society of Wood Science, Kyoto University, Kyoto, Japan. 2000 - Paper presenter.
14. 49th Annual meeting of the Japan Society of Wood Science, Tokyo School of Agriculture. Tokyo, Japan. 1999 - Paper presenter.
15. 48th Annual meeting of the Japan Society of Wood Science, Shizuoka University, Shizuoka, Japan. 1998 – Paper presenter.

AFFILIATION

- Member, National Research Council of the Philippines. 2008- present.
- Member, Max Planck Institute of Colloids and Interfaces Alumni Association. 2005 - Present
- Founding Member, Forest Research Society of the Philippines. 2003 - Present
- Member, New York Academy of Sciences. 1999 – Present
- Member, International Association of Wood Anatomist. 1998 – Present
- Member, The Japan Wood Research Society. 1997 – Present
- Member, Society of Filipino Foresters. 1993 – Present
- Member, Gamma Sigma Delta Society of Agriculture Los Baños Chapter. 1993 - Present.
- Member, Zeta Beta Rho Honor Fraternity, University of the Philippines Los Baños. 1990 – Present.

SCIENTIFIC PROJECTS/STUDIES

1. Project Leader -Thermomechanical Characteristics of Plantation-Grown Rattan Canes (*Calamus merrillii* Becc.). UPLB Basic Research Program. 2008
2. Project Leader - Property Evaluation of Plantation-Grown Rattan Canes. Funded by the International Foundation of Science (IFS). 2003 – 2004.
3. Technical Working Group member - Philippine Millennium Assessment - Funded by the United Nation. 2002 - 2003.
4. Member - Non-Timber Forest Product Evaluation. Funded by the University of the Philippines Los Baños. 2003 – 2004.

REFERENCES

Dr. Rex Victor O. Cruz
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