

CURRICULUM VITAE



A. PERSONAL DETAILS	
Full Name/ Title	Rasmina Halis (Dr.)
Citizenship:	Malaysia (Passport No. : A33816584)
Gender	Female
Date of Birth	7 August 1973
Designation	Associate Professor / Head of Department

Department/Faculty	Department of Forest Production, Faculty of Forestry Universiti Putra Malaysia 43400 UPM Serdang, Malaysia Tel: 03-89467183 Malaysia: 03-89432514
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B. ACADEMIC QUALIFICATION			
Certificate / Qualification obtained	Name of School / Institution	Year obtained	(Area of Specialization)
Ph.D	Universiti Putra Malaysia, Serdang, Malaysia.	2011	Biotechnology in Pulp and Paper (Kenaf Bio Kraft Pulping)
Master of Science	Universiti Sains Malaysia, Minden, Malaysia.	2003	Chemical Process Technology (Bioremediation on oil palm fruit bunch residues)
BSc. (Hons)	University of Manchester Institute Science and Technology (UMIST), Manchester, United Kingdom.	1997	Paper Science (Hydrogen Bond Failure, Conservation Ageing Paper)

C. LANGUAGE PROFICIENCY					
Language	Poor (1)	Moderate (2)	Good (3)	Very good (4)	Excellent (5)
English					/
Malay					/
Other					

D. SCIENTIFIC EXPERIENCE AND SPECIALIZATION				
Organization	Position	Start Date	End Date	Expertise
Universiti Sains Malaysia (School of Industrial Technology)	Research Assistance	Aug 1998	Sept. 1999	Environmental Analysis (Waste water, EIA assessment)
Universiti Sains Malaysia (School of Pharmaceutical Sciences)	Research Officer	Jan 2003	Mac 2003	Anti-urolithiasis, Anti-malaria and anti inflammatory activities

E. WORK EXPERIENCE				
Employer	Designation	Department	Start Date	Date Ended
Sek. Men. Tan Sri Abdul Aziz, Perak	Part-time teacher	English and Mathematics	March 2003	April 2003
Universiti Kebangsaan Malaysia	Part-time Lecturer	School of Applied Physic, Faculty of Science and Technology	August 2003	Oct 2003
Universiti Malaysia Malaysia	Residential Fellow	Kolej Mohammad Rashid	Nov 2004	Dec 2006
Universiti Malaysia Malaysia	Lecturer	Forest Production, Faculty of Forestry	May 2003	May 2011
Universiti Malaysia Malaysia	Senior Lecturer	Forest Production, Faculty of Forestry	May 2011	Present
Universiti Malaysia Malaysia	Head of Department	Forest Production, Faculty of Forestry	Feb 2013	Present
Universiti Malaysia Malaysia	Research Fellow Associate	Institute Tropical Forestry and Forest Products	Nov 2011	Present
Universiti Malaysia Malaysia	Editor	Serdang Sun UPM Alumni Magazine	April 2014	Present
Malaysian Timber Certification Council	Member	Board of Trustee	July 2013	July 2015

F. TEACHING EXPERIENCES			
No.	Kursus /Courses	Institusi/Institution	Course level
1	Math (Calculus) (IUK 108)	Universiti Sains Malaysia	Bachelor
2	Basic Biology (BIO 105)	Universiti Sains Malaysia	Bachelor
3	Paper Technology (STSB 3213)	Universiti Kebangsaan Malaysia	Bachelor
4	Wood Structure and Utilization (FHH 3501)	Universiti Putra Malaysia	Bachelor
5	Wood and Fibre Chemistry (FHH 3518)	Universiti Putra Malaysia	Bachelor
6	Pulp and Paper Technology (FHH3511)	Universiti Putra Malaysia	Bachelor
7	Wood Composite I (FHH 3519)	Universiti Putra Malaysia	Bachelor
8	Wood Composite II (FHH 4504)	Universiti Putra Malaysia	Bachelor
9	Pollution in Wood Industry (FHH 3525)	Universiti Putra Malaysia	Bachelor
10	Pulp and Paper Manufacturing (FHH 5508)	Universiti Putra Malaysia	Post Graduate
11	Special Topic (FHH 5955)	Universiti Putra Malaysia	Post Graduate
12	Bio-products from Lignocellulose (FHH 5519)	Universiti Putra Malaysia	Post Graduate

G. HONOURS AND AWARDS				
Name of awards	Title	Award Authority	Award Type	Year
Academic Awards	MARA Scholarship	MARA	National	1995-1997
	Special Scholarship scheme (MOSTE)	Universiti Sains Malaysia	National	2000-2002
Non-Academic Awards	Excellence Award (Head Department Categories)	UPM	National	2015
	Excellence Award	UPM	National	2014
	Excellence Award	UPM	National	2012
	Excellence Award	UPM	National	2011
	Excellence Award	UPM	National	2005
Awards of Merit	Silver Medal, PRPI	UPM	National	2007
	Patent : Malaysia PI 2011000117	PIPO, Malaysia	National	2011
	Gold Medal, PRPI	UPM	National	2012

H. LIST OF PUBLICATIONS – AUTHOR (S), TITLE, JOURNAL, VOLUME, PAGE AND YEAR PUBLISHED

A. Patent (IP)

Environmentally Friendly Processed Fibre Product and Method of Making the same **(2011: PI 2011000117)** (**Rasmina Halis**, Naimah Md Salleh and Yasuo Konami)

B. Journal

1. Amin Moradbak, Paridah Md Tahir, Ainun Zuriyati Mohamed, Leh Cheu Peng and **Halis, R. (2016)** Effects of Alkaline Sulfite Anthraquinone and Methanol Pulping Conditions on the Mechanical and Optical Paper Properties of Bamboo (*Gigantochloa scortechinii*), *BioResources* 11(3): 5594-6005
2. Umar, R. I., Zaidon, A., Lee, S.H., and **Halis, R (2016)**. Oil-Heat Treatment Of Rubberwood For Optimum Changes In Chemical Constituents And Decay Resistance, *Journal Of Tropical Forest Science* 28(1): 33-4.
3. Moradbak, A., Paridah, M.T., Ainun, Z. M, and **Halis, R. (2016)**. Alkaline Sulfite Anthraquinone and Methanol Pulping of Bamboo (*Gigantochloa scortechinii*). *BioRes* 11(1): 235-248
4. Nurliyana, M.Y., H'ng, P.S., **Rasmina, H.**, Umi Kalsom, M.S., Chin, K.L., Lee, S.H., Lum, W.C., Khoo, G. D. **(2015)**. Effect of C/N ratio in methane productivity and biodegradability during facultative co-digestion of palm oil mill effluent and empty fruit bunch, *Industrial Crops and Products*, 76 :409-415
5. Zaidon Ashaari, Lee Seng Hua, **Rasmina Halis**, Roslinda Shaari, Mariani Ayu Omar and Shuhaibah Shobri **(2015)**. Effects of extended heating time and post-urea treatment on formaldehyde emission and properties of phenolic compreg rubberwood, *Pertanika J. Tropical Agriculture Science* Vol. 38 (3).
6. Geetha Ramasamy, Jegatheswaran Ratnasingam, Edi Suhaimi Bakar, **Halis, R.**, Neelakanda, M. **(2015)**. Assessment of Environmental Emissions from Sawmilling Activity in Malaysia, *BioRes* 10(4): 6643-6662
7. Low, J.C., **Halis, R.**, Md Shah, U.K., Tahir, P., Abood, F., Tukimin, T, Muhammad Danial, I., Lanika, L. and Norhaslida, R **(2015)**. Enhancing Enzymatic Digestibility of Alkaline Pretreated Banana Pseudostem for Sugar Production, *BioRes* 10(1): 1213-1223.
8. Aizat, A.G., Zaidon, A., Nabil, F.L., Bakar, E.S., and **Rasmina, H. (2015)**. Effects of Diffusion Process and Compression on Polymer Loading of Laminated Compreg Oil Palm (*Elaeis guineensis*) Wood and Its Relation to Properties, *Journal of Biobased Materials and Bioenergy* 8 (5), 519-525.
9. Weiching Toong, Jegatheswaran Ratnasingam, Mohamad Kasim Mohamad Roslan and **Halis, R. (2014)** The Prediction Of Wood Properties From Anatomical Characteristics: The Case Of Common Commercial Malaysian Timbers, *BioRes.* 9(3), 5184-5197

10. Jayaraman,S., Daud, N.H., **Halis, R.**, and Mohamed, R. (2014). Effects of plant growth regulators, carbon sources and pH values on callus induction in *Aquilaria malaccensis* leaf explants and characteristics of the resultant calli, *Journal of Forestry Research*, 25(3) : 535-540 (DOI 10.1007/s11676-014-0492-8)
11. A. Zaidon, G.H. Kim, E.S. Bakar & **H. Rasmina**. (2014), Response Surface Methodology Models of Processing Parameters for High Performance Phenolic *Compreg* Wood, *Sains Malaysiana* 43 (5):775-782
12. Norhaslida R , **Halis, R.**, M. Danial I, Low J. C and Naimah M. S (2014), Chemical alteration of banana pseudo stem by white rot fungi, *Biomass and Bioenergy* 61:206-210 <http://dx.doi.org/10.1016/j.biombioe.2013.12.015>
13. Liong, Y.Y., **Halis, R.** And R. Mohamed. (2013). Chemical Characterization Of *Imperata Cylindrica* ('Lalang') And *Pennisetum Purpureum* (Napier Grass) For Bioethanol Production In Malaysia, *Pertanika J. Tropical Agriculture Science* 35(S2).
14. Liong, Y. Y., **Halis, R.**, Lai, O. M., and Mohamed, R. (2012). Conversion Of Lignocellulosic Biomass From Grass To Bioethanol Using Materials Pretreated With Alkali And The White Rot Fungus, *Phanerochaete Chrysosporium*, *BioRes.* 7(4), 5500-5513.
15. Mohamed, R. Wong, M. T. and **Halis, R.**, (2012), Microscopic Observation Of "Gaharu" Wood *Aquilaria Malaccensis*, *Pertanika J. Tropical Agriculture Science* 35(4).
16. **Halis, R.**, H. R. Tan , Zaidon, A. and R. Mohamed (2012) Biomodification of Kenaf using White Rot Fungi, *BioRes* 7(1): 984-987
17. **Rasmina, H.**, Naimah, M.S., Aziah, H., Y. N. Kiew, Konami, Y. (2011). Retting of *Musa sapientum* Pseudostem With Pectin Decomposting Bacteria. *Journal of Agricultural Science and Technology* 1(8B): 1238-1244
18. Zaidon A., Sabiha. S, **Rasmina, H.** Hamami, M.S, Mohd Nor, M.Y., 2010. Characteristics of Pulp Produced from Refiner Mechanical Pulping of Tropical Bamboo (*Gigantochloa scortechinii*), *Pertanika J. Tropical Agriculture Science* 33(2):251-258
19. Azmy, M., Wan Rashidah, W.A.K, **Rasmina, H.** and Nur Mastura,H. A., 2009. Early Performance Trial of Four Malaysian Commercial Bamboos in Southern Peninsular Malaysia, *Borneo Science* (25).
20. Naimah M.S., Aziah, H. and **Rasmina H.** 2009. Penghasilan Gentian Pisang Sebagai Sumber Tekstil, *Malaysian Journal of Consumer*, Jilid 12. ISBN 1511-998x
21. **Rasmina H.** Hamami, M.S. and Nor Rahmat A. J., 2008. Physical and Mechanical Characterisation of Selected Malaysian Bamboo Species, *Malaysian Forester* 7(12): 153- 158.
22. Norul Hisham, H., Salmiah, U., **Rasmina, H.** And Adlin Sabrina, M.R. (2006), Biological Resistance of Malaysian Canes Modified with Polymer, *The Malaysian Forester* 69 (2): 123-129 (SCOPUS Indexed)

23. Zaidon, A., Sabiha, S., **Rasmina, H.**, NorHairul Nizam, Suraya, G. and Mohd Nor, M.Y. **2005**, (Edited Innes, et al , 2005) Tropical Malaysian Bamboo (*Gigantochloa scortechinii*) : A Potential Raw Material for Wet- Press Hardboard, *The International Forestry Review* 7 (5).

C. Chapter in book

1. Naimah M.S., Aziah, H. and **Rasmina H**, **2009**. Gentian Pisang: Ciri-ciri, Penghasilan dan Pemprosesan, Prosiding Seminar Hasil Penyelidikan FEM 2009 (ISBN 978-983-43690-7-1)
2. **Rasmina H.** and Gheetha Ramasamy 2014. Forest Products in Introductory Forest Science, (ISBN 978-967-344-391-8)

D. Book

1. Lai, F.S., **Halis, R.** Abu Bakar, S.N., Ramachandran, S., and Puan, C.L (2013), Proceedings Of International Forestry Graduate Students' Conference 2013, 2 - 4 July 2013, Serdang, Malaysia
2. Halis, R. (2014). *Kenaf : Potential As Pulp And Paper In Malaysia (under reviewed)*

E. Proceedings

1. J.C. Low, **Rasmina H**, M. Danial I., Norhaslida R., Lakarim L, Naimah M. S. (**2012**). Variation In Anatomy, Morphology And Chemistry o f *Musa acuminata var. truncata*, The 4th International Symposium Of Indonesian Wood Research Society. Makasar, Indonesia. 7-8 Nov. 2012
2. Norhaslida R., **Rasmina H.**, M. Danial I., Low J.C, Lakarim L., Naimah M.S (**2012**) Chemical alteration of banana pseudostems by white rot fungi, The 4th International Symposium Of Indonesian Wood Research Society. Makasar, Indonesia. 7-8 Nov. 2012
3. M. Danial I., Naimah M. S. Norhaslida R., Low, J. C. and Rasmina H. (**2012**). Physical and Anatomical Characterization of Three Malaysian Bananas, The 4th International Symposium Of Indonesian Wood Research Society. Makasar, Indonesia. 7-8 Nov. 2012
4. Naimah M.S., **Rasmina H.**, Low L.H. and Chuah W.Z. (**2012**). Ciri-ciri Kertas Gentian Pisang, Proceeding of 16th National MACFEA Conference: Kelestarian dan Kualiti Hidup, 10-11 July at Palm Garden Hotel, Putrajaya.
5. **Rasmina H.**, H.R. Tan, A. Zaidon, and R. Mohamed (**2011**). Comparison between *Pycnoporus sanguineus* and *Oxyporus latemarginatus* in delignifying kenaf chips. JIRCAS Working Report No. 73: 172-177
6. Liong Y.Y., **Rasmina, H.** O.M. Lai and R. Mohamed (**2011**). Pretreatment methods on Malaysian weedy grass for bioethanol production. JIRCAS Working Report No. 73: 390-394
7. **Rasmina, H.**, Naimah, M.S., Aziah, H., Konami, Y., Y. N. Kiew. (**2011**). Bioaugmentation of Pectin Decomposing Bacteria and Catalyst on *Musa sapientum* Pseudostem Fibre, Proceeding in The 2nd International Symposium Of Indonesian Wood Research Society. Bali Indonesia. ISBN : 978-979-96348-8-7

8. **Rasmina, H.**, Jalaluddin H., Paridah M. T., Mohd Nor M. Y., Darah, I. (2007). Pulp and Paper Properties in Biokraft Pulping of Kenaf using Three Type of Fungi, Faculty Forestry Colloquium Proceeding.
9. **Halis Rasmina**, N.A. Nik Norulaini and A.K.M. Omar (2005) A Different Oil Removal in Empty Fruit Bunch by Three Type of Bacteria, International Advanced Technology Congress, Dec. 6-8 2005, CD Proceedings, Putra Jaya, Malaysia
10. Nik Norulaini, N.A., **H. Rasmina**, Norli, I and Mohd Omar. A. K. (2005). The Reduction of Oil in Empty Fruit Bunch Wastes by Bioremediation. JIRCAS Working Report No. 39:13
11. Sabiha S., Zaidon A., **Rasmina H.**, Mohd Nor MY, (2005). Performance of Hardboard Made From Mechanical Pulp Of Tropical Bamboo Culms (*Gigantochloa scortechinii*), International Advanced Technology Congress, Dec. 6-8 2005, CD Proceedings, Putra Jaya, Malaysia

I. PAST AND PRESENT RESEARCH PROJECT					
No	Project Title	Role	Year	Source of fund	Status
1.	Bioremedial reduction of Oil and Grease from Oil Palm Empty Fruit Bunch Waste	Co-Researcher	2000 - 2002	National Grant (IRPA)	Completed
2.	Feasibility on Kenaf for Pulp and Paper	Co-Researcher	2006 - 2008	Malaysian Timber Industrial Board fund	Completed
3.	Gaharu formation in Aquilaria: genes in synthesis pathway and wood changes	Co-Researcher	2007-2009	National Grant (FRGS)	Completed
4.	Banana Fibers As By Product of Agro Waste: Raw Material for Textile and Handicrafts	Co-Researcher	2006-2008	National Grant (FRGS)	Completed
5.	Comprehensive Study on Pre-Treatment on Kenaf Chip with White Rot Fungi for Pulp and Paper	Main Researcher	2008-2010	University Grant (RUGS)	Completed
6.	Differential display identification of genes associated to 'gaharu' formation in Aquilaria malaccensis	Co-Researcher	2009-2011	University Grant (RUGS)	Completed
7.	Functional and Genetic Diversity of Cellulases from Wood Decaying fungi in Peninsular Malaysia	Main Researcher	2009-2011	National Grant (FRGS)	Completed

8.	Characterization of Soda Pulp and Paper Properties from Banana Pseudo stem Fibre on Malaysian Banana Varieties	Co-Researcher	2010-2012	National Grant (FRGS)	Completed
9.	Effect of wounding and microbial inoculation to gaharu induction in tissue culture materials of <i>Aquilaria malaccensis</i> and changes in candidate gene expression	Co-Researcher	2011-2013	University Grant (RUGS)	Completed
10.	Extraction of compound liquid fertilizer from sewage sludge and forest litter	Co-Researcher	2012-2014	National Grant (ERGS)	Completed
11.	Enhancing Recycled Paper With Banana Pulps For Paper Packaging Grades	Main Researcher	2012-2014	University Grant (RUGS)	Completed
12.	Bioethanol conversion from banana pseudostem	Main Researcher	2012-2014	University Grant (RUGS)	Completed
13.	Nano reinforcement in bamboo pulp for high quality packaging paper	Co-Researcher	2013 - 2015	Putra Grant (GP)	Completed
14.	A Metabolic Engineering Mechanistic Study on Synergistic Bioconversion of Lignin and Cellulose by Bacteria from Termite Gut and Cow Dung	Co-Researcher	2014 - 2017	National Grant (FRGS)	On going
15.	Characteristics and morphological of thermal properties of thermal wood particles and its relation to performance of particleboard	Co-Researcher	2014-2017	National Grant (FRGS)	On going

J. STUDENT SUPERVISORIES	
Level	No. of student
Graduate	
Main supervisor	2 PhD (graduated) 7 MSc. (4 graduated)
Co-supervisor	5 PhD (2 graduated) 8 MSc. (graduated)
Undergraduate	
	55 (graduated) 2 (Ongoing)