

CURRICULUM VITAE

A. BUTIR-BUTIR PERIBADI (Personal Details)						
Nama Penuh (Full Name)	Lee Seng Hua		Gelaran <i>(Title):</i> Dr.			
No. MyKad / No. Pasport (Mykad No. / Passport No.)	Warganegara (Citizenship)	Bangsa (Race)	Jantina (Gender)			
871210-56-5071	Malaysia	Cina	Lelaki			
Jawatan (Designation)	Post-doctoral fellow	Tarikh Lahir (Date of Birth)	10 Dec 1987			

	E-meil dan URL (E-mail Address and URL)
Department of Forest Production, Faculty of Forestry Universiti Putra Malaysia	^{E-mail:} leesenghua@hotmail.com
Tel: Fax:	URL: H/IP: 017-9625131
_	Department of Forest Production, Faculty of Forestry Universiti Putra Malaysia Tel: Fax:

B. KELAYAKAN AKADEMIK (Academic Qualification)							
Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhusususan (Area of Specialization)				
Bachelor degree	Universiti Putra Malaysia	2009	Forestry				
PhD	Universiti Putra Malaysia	2013	Wood Science and Technology				

C. KEMAHIRAN BAHASA (Language Proficiency)						
Bahasa / Language	Lemah	Sederhana	Baik	Amat Baik	Cemerlang	
	Poor (1)	Moderate (2)	Good (3)	Very good (4)	Excellent (5)	
English				~		
Bahasa Melayu				\checkmark		
Chinese					✓	
Lain-lain <i>(other):</i>						

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (Scientific experience and Specialisation)						
Organization	Position	Start Date	End Date	Expertise		

E. PEKERJAAN (Employment)						
Majikan / <i>Employer</i>	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / <i>Start Date</i>	Tarikh tamat / Date Ended		
Universiti Putra Malaysia	Post-doctoral fellow	Department of Forest Production	7 July 2014	31 December 2017		
Universiti Putra Malaysia	Research Fellow	Lab of Biopolymer dan Derivatives, INTROP	1 Jan 2018	Current		

F. ANUGERAH DAN HADIAH (Honours and Awards)					
Name of awards	Title	Award Authority	Award Type	Year	
Academic Awards					
Non-Academic Awards					
Awards of Merit					

G. SENARAI PEN	IERBITA	N (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka
surat dan tahun d	diterbitka	an) (List of publications – author (s), title, journal, volume, page and year published)
Journal	1.	Properties of Particleboard Produced from Admixture of Rubberwood and Mahang
		Species. Asian Journal of Applied Science 3(5): 310-316
	2.	Production of Low Formaldehyde Emission Particleboard by Using New Formulated
		Formaldehyde Based Resin. Asian Journal of Scientific Research 4(3): 264-270.
	3.	Effect of Post Heat Treatment on Dimensional Stability of UF Bonded Particleboard. Asian Journal of Applied Science 5(5): 299-306.
	4.	Response of Coptotermes curvignathus (Isoptera: Rhinotermitidae) to formaldehyde catcher-treated particleboard. Pakistan Journal of Biological Sciences 16(21): 1415-1418.
	5.	Morphological re-description of Cochlochila bullita (StåI) (Heteroptera: Tingidae), a potential pest of Orthosiphon aristatus Blume Miq. (Lamiales: Lamiaceae) in Malaysia. Pakistan Journal of Biological Sciences 16(23): 1786-1790.
	6.	Effects of Formaldehyde Catcher on Some Properties of Particleboard with Different Ratio of Surface to Core Layer. Asian Journal of Applied Science. Asian Journal of Applied Science 7(1): 22-29.
	7.	Temites digestomes as a potential source of symbiotic microbiota for lignocelluloses degradation: A review. Pakistan Journal of Biological Sciences. Pakistan Journal of Biological Sciences 17(8): 956-963.
	8.	Mechanical and physical properties of oil palm trunk core particleboard bonded with

	different UF resins. Journal of Oil Palm Research 26(2): 163-169.
9.	Properties of particleboard with oil palm trunk as core laver in comparison to three-
-	laver rubberwood particleboard Journal of Oil Palm Research 27(1): 67-74
10	Durability of phenolic regin treated seconduly (Endospermum diadenum) and jelutong
10.	(Durate Cost late) wood excited white ret function Furgement lournel of Wood and
	(Dyera Costulata) wood against white rot fungus. European Journal of wood and
	Wood Products. European journal of wood and wood products 73: 553-555.
11.	Effects of ammonium carbonate post treatment on phenolic resin treated Sesenduk
	(Endospermum diadenum) wood. Sains Malaysiana. Sains Malaysiana 44(7): 987-
	994.
12	Microstructural mechanical and physical properties of post heat-treated melamine-
12.	fortified uses formaldebude banded particleboard. European Journal of Wood and
	iortified urea formaldenyde bonded particleboard. European Journal of Wood and
	wood Products. European journal of wood and wood products /3: 60/-616.
13.	Effects of extended heating time and post-urea treatment on formaldehyde emission
	and properties of phenolic compreg rubberwood. Pertanika 38(4): 481-497.
14.	Yield and Calorific Value of Bio Oil Pyrolysed from Oil Palm Biomass and its Relation
	with Solid Residence Time and Process Temperature. Asian Journal of Scientific
	Research 8(3): 351-358
15	Treatability of all nalm frond and rubbar wood abing with uroa for the development of
15.	Treatability of oil paint from and tubber wood chips with drea for the development of
	slow release tertilizer. Journal of oil paim research 27(3): 220-228.
16.	Characterisation of phenolic resin and nanoclay admixture and its effect on impreg
	wood. Wood Science and Technology 49(6): 1209-1224.
17.	Antimicrobial Activities of Stembark and Wood Extracts from Nauclea subdita against
	Pathogenic Microorganisms, Malaysian Journal of Microbiology 11(4); 364-371.
18	Effect of C/N ratio in methane productivity and biodegradability during facultative co-
10.	direction of nalm oil mill affluent and ampty fruit bunch. Industrial Crops and Products
40	70: 409-415.
19.	Value added productivity performance of the Peninsular Malaysian wood sawmilling
	industry. Bioresources 10(4): 7324-7338.
20.	Reducing ash related operation problems of fast growing timber species and oil palm
	biomass for combustion applications using leaching techniques. Energy 90: 622-630.
21.	Life Table of Cochlochila bullita Stål (Hemiptera: Tingidae) on Orthosiphon aristatus
	(Riume) Mid, and Ocimum hasilicum L, in Laboratory Conditions, Pertanika 38(4):
22	Strangth improvement of Jalutang (Duara apatulata) wood via nhanalia ragin
22.	Strength Improvement of Jelutong (Dyera Costulata) wood via prienolic resin
00	treatments. Journal of the indian Academy of wood Science 12(2). 152-150.
23.	Addition of ammonium hydroxide as formaldenyde scavenger for sesenduk
	(Endospermum diadenum) wood compregnated using phenolic resins. European
	journal of wood and wood products 74 (2): 277-280.
24.	Oil-heat treatment of rubberwood for optimum changes in chemical constituents and
	decay resistance. Journal of Tropical Forest Science 28 (1): 88-96.
25.	Impregnation of sesenduk (Endospermum diadenum) wood with phenol formaldehyde
	and nanoclav admixture: Effect on fungal decay and termites attack. Sains
	Malaysiana 45(2): 255-262
26	Derformance of compress laminated hamboo/wood hybrid using phonelic resin treated
20.	renormance of comprey laminated barriboo/wood hybrid using prenoric-resin-treated
	strips as core layer (2016). European Journal of wood and wood products. European
	Journal of Wood and Wood Products /1:621-624
27.	Development of pteroma pendula Joannis (lepidoptera: psychidae) feeding on
	selected landscape trees in Peninsular Malaysia. The Malaysian Forester 78(1&2):
	87-96.
28	Effect of accelerated and outdoor ageing on leachability and properties of compred
20.	laminated sesenduk (Endosnermum diadenum) wood Journal of Tronical Forestry
00	29(2). 190-207.
29.	Effect of post-thermal compression treatment on the density profile of rubberwood
	particleboard and its relation to mechanical properties. Submitted to Journal of
	Tropical Forest Science 29(1): 93-104.
30.	Hydrothermal treatment of oil palm wood: effect of treatment variables on dimensional
	stability using Response Surface Methodology. Journal of Oil Palm Research 29(1):
	130-135
31	Dimensional stability of heat oil-cured narticlehoard made with oil nalm trunk and
J.	rubhenwood (2017) European Journal of Wood and Wood Draduate 75(2): 205 200

32.	Physico-mechanical properties of particleboard made from heat-treated rubberwood
	particles. European Journal of Wood and Wood Products 75(4): 655-658.
33.	Addition of propylamine as formaldehyde scavenger for urea formaldehyde-bonded
	particleboard (2017). Wood Research 62(2): 329-334.
34.	Preliminary study on properties evaluation of cement added gypsum board reinforced
	with kenat (Hibiscus cannabinus) bast fibres (2017). Journal of The Indian Academy of
25	Wood Science 14(1): 46-48. Machanical properties of finger isinted because febricated from eight Malausian
35.	Mechanical properties of finger jointed beams fabricated from eight Malaysian
36	Pasponse surface methodology model of hydrothermal treatment parameters on
50.	decay resistance of oil nalm wood, Journal of Tropical Forest Science 20(3): 318-324
37	Comparison of three processing methods in flattening hamboo culm for laminated
07.	bamboo timber production (2017) Journal of Forestry Research Accented
38.	Bioenergy Production from Bamboo: Potential Source From Malaysian's Perspective
•••	(2017). Bioresources 12(3): 6944-6867.
39.	Evaluation on the Virulence of Entomopathogenic Fungus, Isaria fumosorosea
	Isolates against Subterranean Termites Coptotermes spp. (Isoptera: Rhinotermitidae).
	Journal of Forestry Research. Accepted.
40.	Assessment of oil palm wood quality improvement through integrated treatment
	process as function of sawing pattern and slab thickness. Journal of Oil Palm
	Research 29(3): 366-372.
41.	A comparison between the properties of low and medium molecular weight phenol
	formaldehyde resin-treated laminated compreg oil palm wood. International Forestry
10	Review 19(S3): 1-11.
42.	Machining properties of natural regeneration and planted Acacia mangium Willd. x
	Acacia auriculiformis A. Cunn. ex Benth. Hydrid. Journal of Tropical Forest Science.
12	Accepted.
43.	Ellects of pressing cycles and durations on the properties of compreg of paint wood.
44	Chemical and physico-mechanical properties and biological durability of rubberwood
	narticleboards after nost heat-treatment in nalm oil. Holzforschung 72(2): 159-167
45	Physico-mechanical properties of laminates made from Sematan hamboo and
10.	Sesenduk wood derived from Malavsia's secondary forest. International Forestry
	Review 19(S3): 12-19.
46.	Effects of superheated steam treatment on the physical and mechanical properties of
	light red meranti and kedondong wood (2018). Journal of Tropical Forest Science.
	Accepted.
47.	Physico-mechanical properties of laminates made from Sematan bamboo and
	Sesenduk wood derived from Malaysia's secondary forest (2017). International
	Forestry Review.
48.	Nitrogen deposition and release pattern of slow release fertiliser made from urea-
	Impregnated oil paim frond and rubberwood chips (2018) Journal of Forestry
40	Research.
49.	Enercis of two-step post field-treatment in paint of on the properties of oil paint trunk
50	Physico-mechanical properties of light red meranti (Shorea snn) and kedondong
00.	(Canarium snn) wood heat treated in convection oven (2018) Journal of The Indian
	Academy of Wood Science.
51.	Behaviour of walls constructed using kelempayan (Neolamarckia cadamba) wood
-	wool reinforced cement board (2018). Sains Malaysiana
52.	53. Resistance of laminated veneer lumber (LVL) produced from rubberwood, radiata
	pine and larch against subterranean termites and white rot fungi. Current
	Investigations in Agriculture and Current Research 3(1): 1-3.
53.	Thermal treatment of wood using vegetable oils: A review (2018). Construction &
- 1	Building Materials 118: 408-419.
54.	Reducing tormaldehyde emission of urea tormaldehyde-bonded particleboard by
	addition of amines as formaldenyde scavenger. Building and Environment 142: 188-
	134.
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Books/Monographs	
Chapter in book	 Empty Fruit Bunches in the Race for Energy, Biochemical, and Material Industry. Springer International Publishing Switzerland.
	 Development and characterization of wood and non-wood particle based green composites. In: Green Biocomposites: Manufacturing and Properties. Springer International Publishing Switzerland.
	 Kenaf Fiber: Structure and Properties. In: Kenaf Fibers and Composites. CRC press, Taylor and Francis Group.
Proceedings	 Phenolic resin-compressed laminated bamboo: it's performance as function of compression ratio and curing time (2016). Proceedings of the International Conference on Sustainable Forest Development in view of Climate Change: 110-112.
	 Effects of ammonium and aluminium-based hardener on formaldehyde emission and properties of UF-bonded particleboard (2016). Proceedings of the International Conference on Sustainable Forest Development in view of Climate Change: 113-115.
Other publications	 DMDHEU resin as a potential adhesive for woody materials bonding. Annals of Warsaw University of Life Sciences – SGGW. Forestry and Wood Technology No 81, 2013: 143-148.
	Occurrence of Cochlochila bullita Stål in Malaysia. Serangga 19(2): 67-76.
Computer software	

H. PROJEK PENYELIDIKAN TERDAHULU (Past Research Project)							
Project No.	Project Title	Role	Year	Source of fund	Status		
FRGS/2/2014/STWN02/UPM/01/2	Characterisctics and morphological properties of thermal treated wood particles and its relation to performance of particleboard	Member	2014-2017	FRGS, KPT	On-going		
GP-IPM/2014/9444600	Development of suitable treatment to reduce formaldehyde emission from urea formaldehyde bonded particleboard	Member	2015-2017	RUGS, UPM	Completed		
	A study on formaldehyde emission awareness among public and plywood mills in Malaysia	Member	2016-2017	MTIB	Completed		
	Finishing of Acacia wood for medium- and high-ends markets	Member	2016-2017	PPRN. KPT	Completed		
GP/2017/9575200	Modification methods for high performance particleboard	Member	2017-2019	UPM	On-going		
GP/2017/9575500	An assessment of dimensional stability and biological durability	Member	2017-2019	UPM	On-going		

of particleboard made from oil treated particles				
Survey on formaldehyde emission level from plywood products throughout Malaysia Phase 2.	Member	2017-2019	MTIB	On-going