

CURRICULUM VITAE



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ACADEMIC QUALIFICATION

1. Ph.D. Rubber Engineering, 2003, Queen Mary, University of London, United Kingdom.
2. B. Tech. Polymer Technology, 1999, Universiti Sains Malaysia.

AREAS OF INTEREST

1. Degradation behaviour and fracture mechanics of elastomers
2. Processing and characterization of rubber and recycled rubber composites,
3. Development of bio fillers and biodegradable latex films
4. Utilization of waste latex as novel materials for cleaning application

TEACHING EXPERIENCE

No.	Course Code	Course Name	Year
1.	EBP 200/3	Polymeric Materials	2004 – 2014
2.	EBP 204/3	Elastomeric Materials	2004 – 2014
3.	EBP 212/3	Latex Processing	2004 – 2014
3.	EBP 316/2	Latex Laboratory	2004 – 2014
4.	EBP 320/2	Rubber Laboratory	2004 – 2014
5.	EBP 420/2	Rubber Engineering	2004- 2015

PROFESSIONAL QUALIFICATION / MEMBERSHIP

1. Member, Plastics & Rubber Institute Malaysia (PRIM)
2. Member, Electron Microscopy Society Malaysia (EMSM)
3. Chartered Engineer (CEng) Institute of Mechanical Engineering, UK

PUBLICATIONS

(5 Selected Publications: 2012-2015)

1. ZN Ain, AR Azura (2012), Effect of different types of filler and filler loadings on the properties of carboxylated acrylonitrile–butadiene rubber latex films, Journal of Applied Polymer Science, Volume 119, Issue 5, 2815–2823,
2. MH Izmar, MM Afiq, AR Azura, (2012), Effects of different editions of sago starch filler on physical and degradation properties of pre-vulcanized NR latex composites, Composites Part B: Engineering, Volume 43, Issue 7, 2746–2750
3. MM Afiq, AR Azura (2013) Effect of sago starch loadings on soil decomposition of Natural Rubber Latex (NRL) composite films, mechanical properties, International Biodeterioration & Biodegradation, Volume 85, 139–149
4. A.R. Azura, X.M. Lee, M.A. Misman (2014), Effect of natural and synthetic tackifiers on viscosities, adhesion properties and thermal stability of SNR and DPNR solution adhesives Journal of Adhesion Science and Technology, Volume 28, Issue 7, 637-652
5. MA Misman, AR Azura, ZAA Hamid, (2015) Physico-chemical properties of solvent based etherification of sago starch, Industrial Crops and Products, doi: 10.1016/j.indcrop. 2014.11.009

RESEARCH GRANTS

(As Project Leader 2010-2015)

No.	Project Title	Amount (RM)	Year	Source
1.	Utilization of Industrial Waste Latex Compounds for Buildings and Monuments, Outdoor Surface Cleaning Application,	133,916.25	2014-2016	Knowledge Transfer Programme (KTP)
2.	Prototype Development Of Novel Green Additives: Bio-Add	300,000.00	2013-2015	PRGS
3.	D-Gloves: Bio Add for Biodegradable Latex Gloves	350,000.00	2013-2014	Lab2Market grant
4.	D-Glove Biodegradable Rubber Latex Gloves	108,200.00	2014-2015	RU Top Down
5.	Cleaning Efficiency Simulation by Statistical Characterization Analysis of Laminated Natural Rubber Latex (NRL) Films for Mould Cleaning Application	245,700.00	2012-2015	RU- USM
6.	Effect of Freeze-Drying Method on the Properties of Starch/Natural Rubber Composites	36 578.00	2012-2014	USM Short Term
7.	Investigation of Laminated Natural Rubber Latex (NRL) Based Films for Mould Cleaning Application	50,000.00	2012-2014	ERGS

8.	Studies on the effect of Maerogel fillers in Natural Rubber Composites	USD70000	2011-2013	AUN/SEED-Net JICA, Japan
9.	Fundamental studies on understanding of nanoporous photonic crystal templates	76,000	2011-2013	FRGS
10.	Investigation On The Effect of Sago Starch and Assessing the Reliability of Wireless Sensor Network (WSN) on Monitoring Biodegradation Properties of Natural Rubber Latex Films	245,20	2010-2013	RU-USM
11	Utilization of Sago Starch for Biodegradable Latex films	20,000.00	2009-2011	L'Oreal for women Science Fellowship
12	Studies on degradation behaviour of natural rubber composites for engine mount component,	USD70000	2009-2011	AUN/SEED-Net JICA, Japan

POSTGRADUATE STUDENT SUPERVISION

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Neoh Siew Bee	Studies on the applications of in situ vulcanization of styrene modified natural rubber	Graduated
2.	Siti Rohana Yahya	Studies on the Effect of Mechanical and Chemical Treatments on Rheological, Mechanical and Biodegradation Properties of Sago Starch Filled Natural Rubber Latex (NRL) Films	Correction after VIVA
3.	Muhammad Afiq Misman	Studies on Modified sago starch for Biodegradable Nitrile Butadiene Latex Films	Ongoing
4.	Norhazariah Shamsir	Investigation of the effect of kappa-Carrageenan on Natural Rubber Latex Films	Ongoing

MSc – Research (Main Supervisor)

No.	Name	Title	Status
1.	Siti Rohana Yahya	Effect of additives on mechanical, solvent transport and heat ageing properties of rubber vulcanizates	Graduated
2.	Yos Phanny	Effect of different origin of natural rubber,	Graduated

carbon black loading and vulcanization systems on Natural rubber Compounds

3.	Muhammad Misman	Afiq	Effect of Sago Starch on Natural Rubber Latex (NRL) Post Processings: Leaching, Aging, and Biodegradation,	Graduated
4.	Nguyen Quang Duy		Effects of Filler Loading and Different Preparation Methods on Properties of Cassava Starch/Natural Rubber Composites	Graduated
5.	Lee Xing Ming		Effect of Different Tackifiers on Properties of Styrene-Grafted Natural Rubber (SNR) and Deproteinized Natural Rubber (DPNR) Latex Films	Graduated
6.	Lay Makara		The Effect of Nanosilica Filler of Curing Characteristics Mechanical and Thermal Properties of Standard Cambodian Natural Rubber Nanocomposites-	Graduated
7.	Mufidah Md Sidek		Investigation of Laminated Natural Rubber Latex (NRL) Based Films for Mould Cleaning Application	Correction After VIVA

MSc – Mixed mode (Main Supervisor)

No.	Name	Title	Status
1.	Juhairah Binti Abu Bakar	Studies on the effect of heat ageing on mechanical properties of natural rubber compound	Graduated
2.	Suriati Ghazali	Studies on mechanical and conductivity properties of carbon black filled natural rubber	Graduated
3.	Nor Nadirah Najib	Thermoplastic elastomer composite based on palm ash filled EVA/NR blend	Graduated
4.	Nurul Ain Zulkifli	Studies on effect of different type of fillers on Mechanical properties of NBR latex	Graduated
5.	Sharani Bin Yahya Arif	Effect of Tapioca Starch on mechanical and biodegradable properties of natural rubber latex	Graduated

AWARDS / RECOGNITION					
No.	Type	Title	Awarding Authority	Level/Medal	Year
1.	Academic Recognition	Appointment As External Evaluator For Sijil Teknologi Getah” by Akademi Havea Malaysia, Lembaga Getah Malaysia	MQA	National	2013-2015
2.	Academic Recognition	Appointment As External Evaluator For <i>Bachelor Of Engineering Technology (Polymer)</i> In Universiti Malaysia Pahang, Pahang	MQA	National	2014--2017
3	Academic Recognition	L’Oreal for Women in Science Fellowship	L’Oreal Malaysia	National	2009

PROFESSIONAL SERVICES / CONSULTATION			
Selected Major Activities			
No.	Year	Title	Company
1.	2014	NBR and NR latex stability, moisture absorption test for latex glove.	YTY Industry Sdn. Bhd.
2.	Since 2009	Materials characterization for Latex balloon (Yearly project)	Dipro (M) Sdn. Bhd
3.	2011	Development of latex cleaning compound (2-year contract).	Cape Technology Sdn Bhd
4.	2011	Development of stethoscope cover from NBR latex	Nordic (m) Sdn Bhd
4.	2008	Development of Liquid rubber for as cleaning compound (1-year contract)	Cape Technology Sdn Bhd