SITI NUR LIYANA MAMAUOD

(MyRA IMPACT ACTIVITIES)

Name :	Siti Nur Liyana Binti Mamauod
Faculty :	Faculty of Applied Science
Staff No :	312219
Grade of Position (VK7/DM54/DM52 etc)	DM 51
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BASIC PROFILE

Lecturer DM45/DM46/DM51/DM52/DM53/DM54

Appointments	**Date/Year of Appointment**
Lecturer DM45/DM46	**-**
Lecturer DM52/DM51	**3 Februari 2014**
Lecturer DM53/DM54/DT1	**-**
Professor (VK7)	**-**
Professor (VK6)	**-**
Year of Birth :	**1986**
Ph.D Qualification (Year Obtained)	**2014**
Professional Qualification (Year Obtained)	**2014**

ON-GOING POSTGRADUATE (RESEARCH) SUPERVISION (Includes Co-supervision)

	Students Name	**Institutions**	**Year Enrolled**	**Year End**
1	Noor Hidayah Binti Juahir	UiTM	2015	On-going
2	Zarina Binti Zailani	UiTM	2016	On-going
3.	Nur Faezah Binti Hamid	UMK	2017	On-going

On-Going PhD SUPERVISION (Includes Co-supervision)

	Students Name	Institutions	Year Enrolled	Year End
1	Nik Noor Idayu Nik Ibrahim	UiTM	2014	2017

RESEARCH FUNDINGS *(State whether Principal/Co-Researcher)*

NATIONAL LEVEL ACTIVE RESEARCH FUNDING (MOSTI/FRGS & Others) (Last Five Years)

	Research Project	Source	Total Funds	Begin Year	End Year
1	Characterization of Glass Fiber Reinforced Unsaturated Polyester Filled P84 Polyimide/ Multi-Wall Carbon Nannotube (MWCNT) Composites	KPT	RM53,000	Dis. 2015	Mei. 2018
2	Micro-Bearing Concept of Solid Lubricant for Acetabular Cup Lining	KPT	RM30, 000	Okt.2017	Sept. 2019

Dana Kecemerlangan UiTM (Last Five Years)

	Research Project	Total Funds	Begin Year	End Year
1	Synthesis of Palm Oil Based Polyol for Formation of Biobased Polyurethane	RM 20,000	Dis. 2015	Nov. 2017

PUBLICATIONS

TECHNICAL BULLETIN

2016

[1] Haizum Faiqah Mustafa Bakri, Siti Norqhalida Mohd Fauzi & **Siti Nur Liyana Mamauod**,"Effect of CNTs and Nanosilica on the physico-mechanical behaviours of the modified DGEBA-ATBN resin". Vol. 1, Issue 3 & 4, p. 4, ISSN 2289-7089.

[2] Siti Roeyhan Saaidin, Nurhasanah Norhisam, **Siti Nur Liyana Mamauod** & Mohd Ismail Rifdi Rizuan,"Effect of silane coupling agent loading on the physico-mechanical properties of NSi/Mwcnt Reinforced m-EP/CTBN". Vol. 1, Issue 3 & 4, p. 5, ISSN 2289-7089.

[3] Noor Hidayah Juahir, **Siti Nur Liyana Mamauod** & Ahmad Zafir Romli, "Hybrid Nanofiller Reinforced Carboxyl Terminated Polybutadiene Modified Epoxy Resin (m-EP/CTBN)". Vol. 1, Issue 3 & 4, p. 5, ISSN 2 289-7089.

[4] Siti Norqhalida Mohd Faudzi & **Siti Nur Liyana Mamauod**, "Liquid Rubber Modified DGEBA Reinforced with Carbon Nanotubes (CNTs)". Vol. 1, Issue 3 & 4, p. 8, ISSN 2289-7089.

[5] Nik Noor Idayu Nik Ibrahim, Ahmad Zafir Romli & **Siti Nur Liyana Mamauod**, "Compressive Properties of Three Glass Fibre Reinforced Unsaturated Polyester Filled with P84 Polyimide Composite". Vol. 1, Issue 3 & 4, p. 9, ISSN 2289-7089.

2014

[1] **Siti Nur Liyana Mamauod**, "Preparation and Thermal Properties of Hybrid Laminated Composite". Vol.1, Issue 1, p.9, ISSN 2289-7089.

[2] **Siti Nur Liyana Mamauod**, "Hybrid Epoxy polymer Resin". Vol.1, Issue 1, p. 5, ISSN 2289-7089.

[3] **Siti Nur Liyana Mamauod** & Wan Norsyahira Wan Zulkipeli, "Liquid Rubber Modified Epoxy", Polymer Composites Research & Technology". Vol.1, Issue 2, p. 6, ISSN 2289 7089.

[4] Nik Noor Idayu Nik Ibrahim, **Siti Nur Liyana Mamauod**, Ahmad Zafir Romli, "Effect of Masterbatch Method on Gel Time and Thermal Properties of the Unsaturated Polyester/P84 (Polyimide). Vol.1, Issue 2, p. 7, ISSN 2289 7089.

JOURNALS/ PROCEEDINGS

[1] **Siti Nur Liyana Mamauod,** Ahmad Zafir Romli, Haizum Faiqah Mustafa Bakri. Tensile Properties of Nanoclay (NC)-Acrylonitrile Terminated Polybutadiene (ATBN) Modified Epoxy Composites. Status: Accepted, Special Issue of the Journal Mechanical Engineering, JMechE 2018.(Elsevier, Impact Factor:0.21)

[2] **Siti Nur Liyana Mamauod,** Ahmad Zafir Romli. Physical and Mechanical Properties of ENR Compatibilized NR/NBR Blends Reinforced Nanoclay and Nanosilica. Macromolecular Symposium Journal 2017, 371, 27-34. DOI: 10.1002/masy.201600034.

[3] Nik Noor Idayu Nik Ibrahim, **Siti Nur Liyana Mamauod**, Ahmad Zafir. Mechanical Properties of Three Layer Glass Fibre Reinforced Unsaturated Polyester Filled with P84 Polyimide, AIP Conference Proceedings 2017.1; 1901: 030009

[4] **Siti Nur Liyana Mamauod**, Noor Amira Nabillah Ab Rahim, Ahmad Zafir Romli. 'Synergistic Effect of Hybrid Nano-fillers (Nano-Calcium Carbonate/ Nano-Silicone Dioxide) on the Mechanical Properties of Modified Epoxy Resin (EP/CTBN)'. National Symposium on Polymeric Materials (NSPM 2017).

[5] Nik Noor Idayu Nik Ibrahim, **Siti Nur Liyana Mamauod**, Ahmad Zafir Romli. The Effect of Masterbatch Technique on the Properties of the Unsaturated Polyester Filled with P84 Polyimide and MWCNT Hybrid Composites. The International Conference on Green Design and Manufacture 2017 (IConGDM 2017) Krabi, Thailand, 29-30 April 2017. Status: Published

[6] **Siti Nur Liyana Mamauod**, Mohd Ismail Rifdi Rizuan, Ahmad Zafir Romli. Synergistic Effect of Nano Calcium Carbonate (NCC)/ Carbon Black (CB) on the Cure Characteristics and Physico-Mechanical Properties of NR/SBR Blends. The International Conference on Green Design and Manufacture 2017 (IConGDM 2017) Krabi, Thailand. Status: Published

[7] Roslinda Fauzi, Rohah Abdul Majid, Dzulhilmi Kamarudin Sohami, Basirah Fauzi, Nur Raihan Mohamed, **Siti Nur Liyana Mamauod**. "Influence of Triglyceride Structure for Production of Palm Oil-Based Polyol". Journal of Engineering and Applied Sciences, 2017. Status: Accepted.

[8] **S. N. L. Mamauod**, M. H. Abidin, A. Z. Romli, 'The Effect of Hybridization of the Glass Fiber- Flexible Modified Epoxy and Rigid Epoxy Composite Properties under Low- Velocity Impact', Advanced Materials Research, 626: pp 255-259, 2013. *doi:10.4028/www.scientific.net/AMR.626.255*

[9] **Siti Nur Liyana Mamauod**, Mohd Hanafiah Abidin and Ahmad Zafir Romli, 'Preparation and Impact Properties of Epoxy/ Epoxidized Palm Oil Blend Glass Fiber Reinforced Composite Systems', *Advanced Materials Research, 482-484: pp 2400-2404, 2012. doi:10.4028/www.scientific.net/AMR.482-484.2400*

[10] **Siti Nur Liyana Mamauod**, Mohd Hanafiah Abidin, Ahmad Zafir Romli, 'Hybridization Effect on the Dynamic Mechanical Properties of Bio-Based Modified Epoxy of Laminated Hybrid Composites' IJSC: Research Sciences Press, (India), 5(2): pp.86-89, July-December 2012

[11] **Siti Nur Liyana Mamauod**, Mohd Hanafiah Abidin and Ahmad Zafir Romli, 'Green' Polymer Matrix from Renewable Resources:Preparation of Epoxidized Palm Oil-based Epoxy Blends with Imidazole Catalyst, International Journal of Polymers and Technologies , 3(2) July-December 2011.

[12] **Siti Nur Liyana Mamauod**, Mohd Hanafiah Abidin, Ahmad Zafir Romli, The evaluation of chemically treated glass fiber reinforcement via tensile test after chemical treatment; National Symposium on Polymeric Materials 3-5 October 2012.

ACADEMIC AWARDS

[1] Silver Medal Award at ITEX, "Synergistic Effects of Sago-Chitosan Nanofillers in Production of Bioplastics", 10-12 May 2018, Kuala Lumpur, Malaysia

[2] Bronze Medal Award at IIDEX, "Micro-bearing Concept for Solid Lubrication of Ultra-High Molecular Weight Polyethylene/Epoxy Composites Intended for Acetabular Cup Hips Prosthesis", 24-28 September 2018, Universiti Teknologi MARA (UiTM), Malaysia

[3] Bronze Medal Award at IIDEX, "The Characterization of Glass Fibre Reinforced Unsaturated Polyester Filled with P84 Polyimide/Multi-Wall Carbon Nanotubes (MWCNT) Hybrid Composites", 25-29 September 2017, Universiti Teknologi MARA (UiTM), Malaysia.

[4] Fifth Place in Poster Presentation, "Influence of n- $CaCO_3$/n-SiO_2 on the physical-mechanical properties of m-EP/CTBN", 4th PRIM Student Chapter Carni val 2016, 8-10 October 2016, Universiti Sains Malaysia (USM).

[5] Silver Medal Award at IIDEX, "ePO Plasticized SBR/r-NBR, 20-23 September 2016, Universiti Teknologi MARA (UiTM), Malaysia.

[6] Bronze Medal Award at IIDEX, "The Light Weight IBS (L-IBS)", 20-23 September 2016, Universiti Teknologi MARA (UiTM), Malaysia.

[7] Silver Medal Award at IIDEX,"Modification of DGEBA/ATBN Blend", 2015, Universiti Teknologi MARA (UiTM), Malaysia.

[8] Silver Medal Award at IIDEX, 2013, Universiti Teknologi MARA (UiTM), Malaysia.

[9] Best Poster Presentation at 12th NSPM, 2012, Universiti Sains Malaysia (UiTM), Malaysia

TEACHING

Undergraduate, B. Polymer Technology (Hons)

Lecture

PST 564: Additives and compounding/ Polymer additives and compounding

PST 565: Polymer rheology and processing technology.

PST 582: Rubber Elasticity

FINAL YEAR

[1] Siti Nur Ain Binti Mohmad Noor, Sept. 2018, *"Effect of Tire Dust on Rheological and Physico-Mechanical Properties of Natural Rubber/Reclaimed Natural Rubber Blends'.*

[2] Nurul Syafikah Binti Abd Manas, Sept. 2018, *"Cure and Physico-Mechanical Properties of Carbon Black-Butyl Rubber/Reclaimed Butyl Rubber Blends".*

[3] Nurazlin Binti Jamaludin, Sept. 2018, *"Fundamental Study of Different Compatibilizers on the Relationship of Structure-Property of Tire Dust/ Epoxy Composites".*

[4] Zafirah Binti Zainal Abidin, Sept 2018, "*Development of Environmental Friendly and Sustainable Product by using Carboxylated Nitrile Butadiene Rubber and Reclaimed Natural Rubber (XNBR/r-NR)".*

[5] Adil Fikri Bin Sharif, Sept. 2018, *"Cure Characteristics and Physico-Mechanical Properties of Tire Reclaimed Rubber/ Natural Rubber (TRR/NR) Blends".*

[6] Mohamad Haziq Bin Mohd Nimudin, Sept. 2018, *"Cure Characteristics and Physico-Mechanical Properties of Tire Reclaimed Rubber/Natural Rubber (TRR/NR) Blends".*

[7] Sharidatul Aina'a Binti Shukri, June 2017, *"Study of Modified Epoxy Resin (EP-CTBN) Reinforced with Single Nano Filler (nano- Calcium Carbonate and nano-Silixone dioxide) on Physical and Mechanical Behaviours".*

[8] Rabiatul Adawiah Binti Shahalan, Dec 2016, *"Effect of the methods preparation of 2-(3,4-epoxycyclohexyl) ethlethoxysilane (ECET) treated hybrid nanofiller (MWCNT/NSi) reinforced m-EP on the physical and Mechanical Behaviours".*

[9] Faten Najehah Binti Muhamad Hakimi, Dec 2016, *"Experimental Study of Modified Epoxy Resin (Ep/CTBN) Reinforced with Hybrid Nanofiller (Titanium Dioxide & Nano Calcium Carbonate) on Physical and Mechanical Behaviour".*

[10] Nor Atiqah Binti Suhaimi, Dec 2016, *"Fundamental Study on the Effect of Hybrid Carbon Black/Precipitated Calcium Carbonate Fillers Reinforced NR/SBR Blends in the presence of Bis [3-(Triethoxysilyl) Propyl] Tetrasulfide, Si69".*

[11] Siti Noor Fazira Binti Roslan, Dec 2016, *"Study on the untreated and treated Bis [3-(Triethoxysilyl) Propyl] Tetrasulfide, Si69-Carbon Black-Nano Calcium Carbonate Reinforced NR/SBR Blends on the cure and PhysicoMechanical Properties".*

[12] Nurul Fatyha Syazwany Binti Hanafi, June 2017, *"Fundamental Study on the Effect of Different Percentage of 2-(3, 4-Epoxycyclohexyl)- Ethyltriethoxysilane on the Hybrid Filler (Nano Silixone Dioxide/ Nano Calcium Carbonate) Reinforced Modified Epoxy Resin (EPs/ATBN) Composites".*

[13] Noor Amira Nabillah Binti AB Rahim, June 2016, *"Influence of Hybrid Nanofillers on the Physico-Mechanical Properties of Modified Epoxy Resin (EPS/CTBN)".*

[14] Nur Dhamirah Binti Ismail, Dec. 2015, *"Cure Characteristic and Physico-Mechanical Properties of SBR/NBRr using Epoxidized Palm Oil as a Plasticizer"*

[15] Muhammad Syahir Bin Abd. Rahman, Dec 2015, *"Effect of Epoxidized Soybean Oil (ESO) as a Plasticizer on the Cure Characteristics and Physico-Mechanical Properties of SBR/NBRr Blend".*

[16] Mohd Iikemal Bin Mohd Rafik, Dec. 2015, *"The Effect of Carbonyl Terminated Butadiene Acrylonitrile (CTBN) Towards the Physical – Mechanical Properties of Epoxy (DGEBA)".*

[17] Muhammad Syahir Bin Abd. Rahman, Dec 2015, *"Effect of Epoxidized Soybean Oil (ESO) as a Plasticizer on the Cure Characteristics and Physico-Mechanical Properties of SBR/NBRr Blends"*

[18] Siti Norqhalida Binti Mohd Faudzi, Dec 2015*, "Mechanical and Physical Properties Enhancement of Diglycidyl Ether Bisphenol-A (DGEBA)/ Amine Terminated Butadiene Acrylonitrile (ATBN) Reinforced with Carbon Nanotubes (CNTs)".*

[19] *Noor Amina Nabillah Binti AB. Rahim, Dec. 2015, "Influence of Hybrid Nanofillers on the Physico-Mechanical Properties of Modified Epoxy Resin (EPS/CTBN)".*

[20] Nur Munirah Binti Khairul Azhar, Dec 2015, *"Synergistic Effect of Hybrid Filler (PCC/CB) in NR/SBR Matrix".*

[21] Fatin Elyani Binti Zainal Arifin, Dec 2015, *"Preliminary Study of Hybrid Filler (NCC/CB) on the Cure Characteristics and Physico-Mechanical Properties of NR/SBR Blends".*

[22] Wan Norsyahira Binti Wan Zulkipeli, Dec 2014, *"Effect of Amine Terminated Butadiene Acrylonitrile (ATBN) on Physical and Mechanical Properites of Diglycidyl Ether Bisphenol-A (DGEBA) Epoxy Resin".*

COMMITTEE MEMBER (CONFERENCE/SEMINAR/ WORKSHOP/CONGRESS/TECHNICAL BULLETIN)

2018

[1]

2017

[1]

2016

[1] Post: Jury at the 4th PRIM Student Chapter Carnival 2016, Association: School of Materials and Mineral Resources Engineering USM.
[2] Post: Committee Member for the ASEAN Smart Grid Congress 2, Association: Universiti Teknologi MARA UiTM
[3] Post: Panel of assessor for industrial training presentation, Association: School of Polymer Technology, FSG, UiTM
[4] Post: Panel of assessor for Previva PhD and Master Presentation, Association: School of Polymer Technology, FSG, UiTM
[5] Post: Chairperson for Previva PhD and Master Presentation, Association: School of Polymer Technology, FSG, UiTM
[6] Post: Member of Editor, Association: Polymer Composites Research & Technology, Institute of Science, UiTM.

2015

[1] Post: Associate Member, Association: Polymer Composites Research & Technology, Institute of Science, UiTM.
[2] Post: Panel of assessor for industrial training presentation, Association: School of Polymer Technology, FSG, UiTM
[3] Post: Jury at 'Program Festival Sains, Teknologi, dan Inovasi Kebangsaan 2015' (FESTASI), Association: Faculty of Applied Sciences, Universiti Teknologi MARA UiTM
[4] Post: Committee member for " Semakan Kurikulum bagi Program Sarjana Muda Sains (Kepujian) Teknologi Polimer "(AS243)
[5] Post: Committee member for " Program Festival Sains, Teknologi dan Inovasi Kebangsaan 2015, Association: Faculty of Applied Sciences, Universiti Teknologi MARA UiTM
[6] Post: Secretary for " Program Alumni Homecoming 2015, Association: Faculty of Applied Sciences, Universiti Teknologi MARA UiTM
[7] Post: Associate member, Association: Institute of Science (IOS), Duration: 1 January 2014-31 December 2015
[8] Post: Chairperson for Alumni and Industri Program, Association: Faculty of Applied Sciences (FSG), Duration: 1 Mac 2015-28 February 2017.

[9] Post: Fasilitator for “Bengkel Penulisan Tesis 2015”, Association: Institute of Science (IOS), Duration: 12-15 November 2015

2014

[1] Post: Associate Member, Association: Polymer Composites Research & Technology, Institute of Science, UiTM.

[2] Post: Panel of assessor for industrial training presentation, Association: School of Polymer Technology, FSG, UiTM

MINUTES TAKER

[1] Siti Nur Liyana Mamauod, “Pre-viva Session”, Association: Faculty of Applied Sciences, Universiti Teknologi MARA, 9 Jun 2016.

[2] Siti Nur Liyana Mamauod, “Pre-viva Session”, Association: Faculty of Applied Sciences, Universiti Teknologi MARA, 10 September 2015.

[3] Siti Nur Liyana Mamauod, “Viva Session”, Association: Faculty of Applied Sciences, Universiti Teknologi MARA, 24 November 2015.

[4] Siti Nur Liyana Mamauod, “Viva Session”, Association: Faculty of Applied Sciences, Universiti Teknologi MARA, 10 September 2015.

INVITED SPEAKER

[1] Siti Nur Liyana Mamauod, “Misi Akademik Pelajar Diploma Sains & Pra Sains Diploma Sains”, Association: Universiti Teknologi MARA, Kampus Kuala Terengganu, 29 Februari 2016.

[2] Siti Nur Liyana Mamauod, “Preliminary Study on the Physical and Mechanical Properties of Nanoclay and Nanosilica Reinforced ENR Compatibilized NR/NBR Blends” in the Institute of Science (IOS) Colloquium Series (10/2016), 20 May 2016.

UNIVERSITY COMMITTEE

[1] Membership: Committee member, Committee: Colloquium Series, Institute of Science, Duration: 1 July 2018 – 30 Jun 2020.

[2] Membership: Committee member, Committee; Marketing team for Special Project, Institute of Science, Duration: 1 July 2018 – 30 Jun 2020.

[3] Membership: Committee member, Committee: ASEAN Smart Grid Congress 2 2016, Duration: 8-10 November 2016, UiTM.

[4] Membership: Committee member, Committee: Go Green Summer Camp, Duration: 18-31 July 2016.

[5] Membership: Editor of ‘Laporan Anugerah Kualiti Naib Canselor Fakulti Sains Gunaan’, UiTM. Duration: 1 Mei 2016-30 April 2017.

[6] Membership: Chairperson of Promotion and Publicity for Go Green International Summer Programme 2016. Association: Faculty of Applied Sciences, UiTM.

[7] Membership: Committee member of academic mission. Association: Faculty of Applied Sciences, UiTM. Duration: 1 october 2015-30 September 2017.

[8] Membership: Committee member of 5S. Association: Faculty of Applied Sciences, UiTM. Duration: 3 Mei 2016-3 Mei 2018.

[9] Membership: Committee member of Colloquium. Association: Faculty of Applied Sciences, UiTM. Duration: 1 Mac 2015- 28 February 2017.

[10] Membership: Committee member of Outcome- Based Education (OBE). Association: Faculty of Applied Sciences, UiTM. Duration: 2 January 2015- 1 January 2017.

[11] Membership: Committee member of 5S FSG. Association: Faculty of Applied Sciences, UiTM. Duration: 3 May 2016- 3 May 2018.

SCHOOL COMMITTEE

[1] Post: Resource Person of Additives and Compounding, Association: Department of Polymer Technology, Duration: 1 September 2018 – 31 August 2020.

[2] Post: Coordinator of Industrial Training, Association: Department of Polymer Technology, Duration: 1 August 2015 – 31 July 2018.

[3] Post: Resource Person of Rubber Elasticity PST 582, Association: Department of Polymer Technology, Duration: 1 September 2015 – 31 August 2017.

[4] Post: Resource Person of Polymer Processing and Rheology PST 565, Association: Department of Polymer Technology, Duration: 2 January 2014 – 31 January 2016.