

Curriculum Vitae

I. Personal Particulars

Dr. Nadras Othman
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 School of Materials and Mineral Resources Engineering
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II. Academic and Professional Qualifications

Year	Degree	Discipline	University
1993	Diploma in Rubber & Plastic Technology	Rubber & Plastic Technology	Universiti Teknologi MARA (UiTM)
1993	Diploma in Natural Rubber Processing	Rubber Processing	Rubber Research Institute Malaysia (RRIM)
1997	B. Eng (Hons) in Polymer Engineering	Polymer Engineering	London Metropolitan University formerly known as University of North London (LMU)
2007	Doctor of Philosophy (PhD)	Polymer Composites	Universiti Sains Malaysia (USM)

III. Work Experience

Year	Position	Field of Work	Place of Work
1993-1994	Quality Control Supervisor	Polymer processing	STC Plastics (M) Sdn. Bhd.
1997-1998	Quality Assurance Engineer	ISO 9002 Document control	EP Polymers (M) Sdn.Bhd.
Feb-Apr 2003	Contract Research Officer	Research	USM
Jul – Dis 2007	Lecturer	Teaching	AIMST University
Jan 2008 – Jan 2009	Lecturer – DS 45	Teaching/Research	Universiti Sains Malaysia
Jan 2009 – present	Lecturer – DS 51	Teaching/Research	Universiti Sains Malaysia

IV. Main Current Research Areas

RESEARCH AND PUBLICATION

Research Publications

Research Book/Monograph

1. N. Othman, 2007, Characterisation and properties of bentonite /polypropylene Composites, 257 pages. PhD Thesis, Publisher: **Universiti Sains Malaysia**,
2. Zahari, N.D., **Othman, N.**, Mohd Ishak, Z. A., (2013), Surface effects and contact mechanics XI; Computational Methods and experimental, Editors: J.Th.De Hosson & C.A. Brebbia, WIT Press (Southampton, Boston), Effect of silane modification on mechanical and thermal properties of ethylene vinyl acetate/zeolite composites, 289-299 pages, ISBN: 978-1-84564-722-3, Publisher; **WIT Press**.

Journal/E-Journal/Journal Proceeding (each publication)

Please list authors, year, title, publisher and number of pages.

INTERNATIONAL

1. **Othman, N.**, Ismail, H., Mariatti, M., (2004), Preliminary study on application of bentonite as filler in polypropylene composites. "**Polymer Plastic Technology and Engineering**", 43, 3, 713-730, Taylor & Francis.
2. **Othman, N.**, Ismail, H., Mariatti, M., (2006), Effect of compatibilisers on mechanical and thermal properties of bentonite filled polypropylene composites. "**Polymer Degradation and Stability**" 91, 1761-1774, Elsevier.
3. **Othman N.**, Azahari, N., (2010) Optimization of Zeolite as Filler in Polypropylene Composite. **Journal of Reinforced Plastics and Composites**, 29:14, 2211-2226, SAGE Publication.
4. Mohd Islam N.Z., **Othman, N**, Z, Ahmad, Z, Ismail, H., (2010) Effect of pro-degradant additives concentration on aging properties of polypropylene films. "**Polymer Plastic Technology and Engineering**", 49:3, 272-278, Taylor & Francis.
5. Mohd Ramly, A.F., Ismail, H., **Othman, N.**, (2010) Multiwall carbon nanotube filled natural rubber: The effects of filler loading and mixing method, "**Polymer Plastic Technology and Engineering**", 49:3, 260-266, Taylor & Francis.
6. Anandhan, S., Jeevan Vikhnes, C., **Othman, N.**, Sasidharan, S., (2011) A new processing additive for natural rubber from agricultural waste, "**Kautschuk Gummi Kunststoffe (KGK)**", 64(3), 44-51.
7. Zaharri, N., **Othman, N.**, Mohd Ishak, Z.A., (2011) Influence of surface modifications on interfacial interaction of zeolite filled polymer composites, "**Key Engineering Materials**", Vol 471-472, 320-324. Transtech Publications Switzerland.
8. Muniandy, K., Ismail, H., **Othman, N.**, (2011) Curing characteristics and mechanical properties of rattan filled natural rubber compound, "**Key Engineering Materials**", Vol 471-472, 845-850. Transtech Publications Switzerland.
9. Shaari, S., Ismail, H., **Othman, N.**, (2011) The effect of chitosan loading on the properties of chitosan filled epoxidized natural rubber compound, "**Key Engineering Materials**", Vol 471-472, 851-856. Transtech Publications Switzerland.
10. Mohd Islam N.Z., **Othman. N**, Z, Ahmad, Z, Ismail, H., (2011) Effect of pro-degradant additive on photo-oxidative aging of polypropylene film, **Sains Malaysiana**, 40(7), 803-808, **Universiti Kebangsaan Malaysia**.

11. Mohd Ramly, A.F., Ismail, H., **Othman, N.**, (2011) The effect of carbon black/multiwall carbon nanotube hybrid fillers on properties of natural rubber nanocomposites, "**Polymer Plastic technology and Engineering**", **50: 7, 660-666**, Taylor & Francis.
12. Kahar, A.W., Ismail, H., **Othman, N.**, (2011) Characterization of citric acid modified tapioca starch and its influence on thermal behaviour and water absorption of high density polyethylene/natural rubber/thermoplastic tapioca starch blends, "**Polymer Plastic Technology and Engineering**", **50: 7, 748-753**, Taylor & Francis.
13. Omar, N.F., Ismail, H., **Othman, N.**, (2011) Effect of carbon black loading on curing characteristics and mechanical properties of waste tyre dust/carbon black hybrid filler filled natural rubber compounds, **Journal of Applied Polymer Science**, **121: 2, 1143-1150**, Wiley.
14. Mohamad, N. R, **Othman, N.**, Ahmad, Z. (2011) A synthesis of superabsorbent polymer based on waste polystyrene foam-graft-acrylic acid via emulsion polymerization technique – with different crosslinker, **International Journal of Polymers and Technologies**, **Vol. 3(1), 7-16**, Serial Publishing.
15. Ismail, H., Omar, N.F., **Othman, N.**, (2011) The effect of kenaf loading on curing characteristics and mechanical properties of waste tyre dust/kenaf fibre hybrid filler filled natural rubber compounds, **BioResources**, **6**, 3742-3756, NC State University.
16. Shaari, S., Ismail, H., **Othman, N.**, (2011) The effect of chitosan loading on the curing –characteristics, mechanical and morphological properties of chitosan-filled natural rubber (NR), epoxidised natural rubber (ENR), and styrene-butadiene rubber (SBR) compounds, "**Polymer Testing**", **Vol. 30, Issue 7, 784-790**. Elsevier.
17. Muniandy, K., Ismail, H., **Othman, N.**, (2012) Curing Characteristics and Mechanical Properties of Rattan Powder Filled Natural Rubber Composites as a Function of Filler Loading and Silane Coupling Agent, "**Journal of Applied Polymer Science**", **Vol. 123. Issue 5, 2805-2811**, **Published date: March 2012**, **DOI: 10.1002/app.34730**. Wiley.
18. Muniandy, K., **Othman, N.**, Ismail, H., Sasidharan, S., (2012) Comparative Study on Natural Antioxidant as an Ageing Retardant for Natural Rubber Vulcanizates, "**Journal of Applied Polymer Science**", **Vol. 124, Issue 2, 1490-1500**, **Published date: 15/4/2012**, **DOI: 10.1002/app.35160**, Wiley.
19. Kahar, A.W., Ismail, H., **Othman, N.**, (2012) Effects of polyethylene grafted maleic anhydride as a compatibilizer on the morphology and tensile properties of thermoplastic tapioca starch/high density polyethylene/natural rubber blends, "**Journal of Vinyl and Additive Technology**", **18 (1)** , pp. 65-70, **DOI: 10.1002/vnl.20289**, Wiley.
20. Muniandy, K., Ismail, H., **Othman, N.**, (2012) Biodegradation, morphological and FTIR study of rattan powder filled natural rubber composites as a function of filler loading and a silane coupling agent, **Bioresources**, **7(1), 957-971**, NC State University.
21. Ismail, H., Muniandy, K., and **Othman, N.** (2012). "Fatigue life, morphological studies, and thermal aging of rattan powder-filled natural rubber composites as a function of filler loading and a silane coupling agent," **Bioresources**, **7(1)**, 841-858, NC State University.
22. Kahar, A.W., Ismail, H., **Othman, N.**, (2012) Compatibilisation effects of PE-g-MA on mechanical, thermal and swelling properties of high density polyethylene/natural rubber/thermoplastics tapioca starch blends. "**Polymer Plastic Technology and Engineering**", **Vol. 51, Issue 3, 298-303**. Taylor & Francis.
23. Kahar, A.W., Ismail, H., **Othman, N.**, (2012) Morphology and tensile properties of high density polyethylene/natural rubber/thermoplastic tapioca starch blends: The effect of citric acid modified tapioca starch, "**Journal of Applied Polymer Science**", **Vol. 125, 768–775** (2012), Wiley.
24. Zahari, N., **Othman, N.**, Z. A. Mohd Ishak (2012) Effect of Peroxide Crosslinking on Mechanical and Morphological Properties of poly(ethylene-co-vinyl acetate)/Zeolite Composites, "**Journal of Vinyl and Additive Technology**", **18:129–138**, 2012., Wiley.
25. Kahar, A.W., Ismail, H., **Othman, N.**, (2012) Effect of dynamic vulcanization on physical, mechanical and morphological properties of high density polyethylene / natural rubber / thermoplastic tapioca starch blends, **Journal of Vinyl and Additive Technology**", **18, (3), pp.192-197**, Wiley.

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36. Mat Suki, F.M., Azahari, N.A., **Othman, N.**, Ismail, H., (2013), XRD analysis & tensile properties of attapulgite clay filled polyvinylalcohol/corn starch blend films, **Advanced Materials Research**, **Vol. 620, pp. 99-104**. *Trans Tech Publications, Switzerland*.
37. Shuhaimi, N. H. H., Ishak, N.S., **Othman, N.**, Ismail, H., Sasidharan, S., (2013) Effect of natural antioxidants on curing characteristics and crosslink density of natural rubber vulcanisate. **Advanced Materials Research**, **Vol. 626, pp 366-371**. *Trans Tech Publications, Switzerland*.
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- polyvinyl alcohol/modified corn starch blend films: Microbial and Enzymatic, **Advanced Materials Research**, Vol. 747(2013), pp.668-672, *Trans Tech. Publications, Switzerland*, doi: 10.4028/www.scientific.net/AMR.747.668
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 43. Mohamed, N.R., Othman, N., Ahmad, Z., Fauzi, R., (2013) The effect of acrylamide loading on the swelling capacity of superabsorbent polymer in different aqueous medium, **Advanced Materials Research**, Vol. 812(2013), pp. 20-29, *Trans Tech. Publications, Switzerland*, doi: 10.4028/www.scientific.net/AMR.812.20
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 46. Shaari Balakrishna, N., Ismail, H., and Othman, N. (2013). "Processing, mechanical, and thermal properties of polypropylene/rattan powder/talc hybrid composites," **BioRes.** 8(4), 6409-6423. **NC State University.**
 47. Zahari, N.D., Othman, N. , Ishak, Z.A.M., Effect of intumescence flame retardant (IFR) on thermal properties of ethylene vinyl acetate (EVA)/zeolite composites, (**Conference Paper**), **8th Asian-Australasian Conference on Composite Materials 2012, ACCM 2012** - Composites: Enabling Tomorrow's Industry Today, ACCM 2012; Kuala Lumpur; Malaysia; 6 November 2012 through 8 November 2012; Code 102071, Volume 1, 2012, Pages 149-154.
 48. N. D. Zaharri, N. Othman, and Z. A. Mohd Ishak (2013) Effect of Zeolite Modification via Cationic Exchange Method on Mechanical, Thermal, and Morphological Properties of Ethylene Vinyl Acetate/Zeolite Composites, **Advances in Materials Science & Engineering; Special issue - Advanced Composites with Natural Reinforcement**, Volume 2013 (2013), Article ID 394656, 9 pages. doi: 10.1155/2013/394656
 49. Zahari, N.D., Othman, N., Ishak, Z.A.M., (2013) Effect of silane modification on mechanical and thermal properties of ethylene vinyl acetate (EVA)/zeolite composites, **WIT Transactions on Engineering Science**, 78, pp. 289-299. doi: 10.2495/SECM130251.
 50. Shuhaimi, N. H. H., **Othman, N.**, Ismail, H., Sasidharan, S., (2014), Comparative study on natural and synthetic antioxidants on thermo-oxidative aging of natural and synthetic rubber vulcanisates, **Advanced Materials Research**, Vol. 844(2014), pp.326-329, *Trans Tech. Publications, Switzerland*, doi: 10.4028/www.scientific.net/AMR.844.326
 51. Makara Lay, A. Rashid Azura, **Nadras Othman**, Yasuyuki Tezuka, Chhorda Pen (2014), Comparison of mechanical properties and curing characteristics of natural rubber composites with different coupling agents. **Advanced Materials Research**, Vol. 858(2014), pp.24-31, *Trans Tech. Publications, Switzerland*, doi: 10.4028/www.scientific.net/AMR.858.24.
 52. Shaari Balakrishna, N., Ismail, H., and **Othman, N.** (2014), Polypropylene/rattan powder/kaolin hybrid composites: Processing, mechanical and thermal properties. **Polymer Plastics Technology and Engineering**, Vol. 53, Issue 5, pp. 451-458, Publication date: 2014/3/29, **Taylor & Francis Group.**
 53. Nordin, N.H., Ramli, M.R., Othman, N., Ahmad, Z., (2014), Synthesis and thermal stability of crosslinked carbazole-substituted poly(dimethylsiloxane) for LED encapsulation, **Polymers & Polymer Composites**, Vol. 22, Issue 7, Publication date; 2014/10/1, **Smithers Rapra.**
 54. Nordin, N.H., Ramli, M.R., Othman, N., Ahmad, Z., (2014), Synthesis of carbazole-substituted Poly(dimethylsiloxane) and its improved refractive index, **Journal of Applied Polymer Science, Published on line 19/11/2014, DOI: 10.1002/app.41654, Volume 132, Issue 11, (doi/10.1002/app.v132.11/issuetoc) March 15, 2015, Wiley.**

NATIONAL

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Chapter In Research Book (non proceedings) each document

Please list authors, year, title, publisher and number of pages.

INTERNATIONAL

1. **Othman, N.**, Kahar, A.W., Ismail, H., (2014) Natural Rubber Based Blends & IPN, Chapter 10: Thermoplastics elastomer from high density polyethylene/natural rubber: Effects of different dynamic vulcanisation. ISBN:978-1-84973-610-7, eISBN: 978-1-84973-764-7, DOI: 10.1039/9781849737647. **Publisher: Royal Society of Chemistry**

Proceeding

Please list authors, year, title, publisher and number of pages.

INTERNATIONAL

1. Othman, N., Ismail, H., Mariatti, M., (2003), Application of bentonite as filler in polypropylene: Effect of filler loading on mechanical and morphological properties. *Proceeding; 3rd International Conference in Recent Advances in Materials, Minerals and Environment (RAMME 2003)*, Penang.
2. Othman, N., Ismail, H., Mariatti, M., (2004), Effects of palm oil fatty acids additive (POFA) on properties of bentonite filled polypropylene composites. *Proceeding; Regional Conference For Young Chemists 2004 (RCYC 2004)*, 13th – 14th April 2004, Penang.

3. Othman, N., Ismail, H., Mariatti, M., (2004), Effects of polypropylene maleic anhydride on properties of bentonite filled polypropylene composites. Proceeding; Regional Conference For Young Chemists 2004 (**RCYC 2004**), 13th – 14th April 2004, Penang.
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8. Othman, N., Ismail, H., M. Mariatti., (2009) Effect of coupling agents on thermal properties of bentonite/polypropylene composites, **4th International conference on high performance fillers for polymer composites 2009**, 4-5 March 2009, Barcelona, Spain, Session 6 (Paper 17), iSmithers Rapra Publishing.
9. Othman, N, Mohd, S.H., (2009), The structure and properties of mineral clay reinforced blend PVA/corn starch, The 4th China-Europe symposium on processing & properties of reinforced polymers (**CESPP 2009**) , 8-12 June 2009, Guilin, China.
10. Othman, N., Ismail, H., M, Mariatti., (2009), Effect of coupling agent on mechanical properties and morphological properties of bentonite/polypropylene composites, **Eurofillers 2009**, 21-25 June 2009, Alessandria, Italy.
11. Mohamed Islam, N. Zalikha, Othman, N., Ismail, H., Ahmad, Z., (2009), Effect of pro-degradant additive on natural exposure of polypropylene film, 1st Regional conference on materials 2009 (**RCM 2009**), 16-17 February 2009, Penang, Malaysia.
12. Othman, N., Mohd Azahari, N. Diyana., Ariffin, K.S., (2009), A study on zeolite reinforced polypropylene composites, 4th International conference on recent advances in materials, minerals & environment and 2nd Asian symposium on materials & processing (**RAMM & ASMP 2009**), 1-3 June 2009, Penang, Malaysia.
13. Mohamed Islam, N. Zalikha, Othman, N., Ismail, H., Ahmad, Z., (2009), Effect of pro-degradant additive on thermo-oxidative aging of polypropylene film, 4th International conference on recent advances in materials, minerals & environment and 2nd Asian symposium on materials & & processing (**RAMM ASMP 2009**), 1-3 June 2009, Penang, Malaysia.
14. Mohamed Islam, N. Zalikha, Othman, N., Ismail, H., Ahmad, Z., (2009), Effect of pro- degradant additive on thermo-oxidative aging of polypropylene film, Malaysian Polymer International Conference 2009 (**MPIC 2009**), 21-22 October 2009, Putrajaya, Kuala Lumpur, Malaysia.
15. Azahari, N. A., Othman, N., Ismail, H., (2009), Effect of blend ratio on mechanical properties of PVA/corn starch, Malaysian Polymer International Conference 2009 (**MPIC 2009**), 21-22 October 2009, Putrajaya, Kuala Lumpur, Malaysia.
16. Azahari, N. A, Othman, N., Ismail, H., (2009) Characterisation of PVA/corn starch blend film using DSC, TGA & XRD, Regional Conference on Solid State Science and Technology 2009 (**RCSST 2009**), 21-23 December 2009, Penang, Malaysia.
17. Mohamad, N. R, Othman, N., Isamil, H., Ahmad, Z., Ariffin, A., (2009) Effect of mass ratio acrylic acid to waste polystyrene foam on synthesis and water absorption of superabsorbent polymer, Regional Conference on Solid State Science and Technology 2009 (**RCSST 2009**), 21-23 December 2009, Penang, Malaysia.
18. Azahari, N. A, Othman, N., Ismail, H., (2009), Water absorption study on PVA/corn starch blend composites, Asian Workshop on Polymer Processing (**AWPP 2009**), 1-4 December 2009, Penang, Malaysia.

19. Mohamed Zahari, N., Othman, N., (2009) Effect of silane coupling agent on mechanical and morphological properties of polypropylene/zeolite composite, Asian Workshop on Polymer Processing (**AWPP 2009**), 1-4 December 2009, Penang, Malaysia.
20. Mohamad, N. R, Othman, N.,Ahmad, Z. (2010) Effect of crosslinker type on water absorbency of superabsorbent polymer based on waste polystyrene foam-g-acrylic acid, International Conference on Environmental Research and Technology (**ICERT 2010**), 2-4 June 2010, Penang, Malaysia.
21. Mohamed Islam, N. Zalikha, Othman, N., Ismail, H., Ahmad, Z., (2010) Effect of pro-degradant additives on thermal properties of polypropylene films, World Engineering Congress 2010 (**WEC 2010**), 2-5 August 2010, Kuching, Sarawak, Malaysia.
22. Mohd Ramly, A.F., Ismail, H., **Othman, N.**, (2010) Hybrid of carbon black and multiwall carbon nanotube as reinforcing fillers in natural rubber nanocomposites, World Engineering Congress 2010 (**WEC 2010**), 2-5 August 2010, Kuching, Sarawak, Malaysia.
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24. Zaharri, N., **Othman, N.**, Mohd Ishak, Z.A., (2011) Influence of surface modifications on interfacial interaction of zeolite filled polymer composites, 8th International Conference on Composite Science and Technology (**ICCSST 2011**), March 22-24, Kuala Lumpur, Malaysia.
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Conference Presentation (oral and poster)

Please list title, venue and year

INTERNATIONAL

1. Othman, N., Ismail, H., Mariatti, M., (2003), Application of bentonite as filler in polypropylene: Effect of filler loading on mechanical and morphological properties. Proceeding; 3rd International Conference in Recent Advances in Materials, Minerals and Environment (RAMME 2003), Penang.
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7. Othman, N., Ismail, H., Mariatti, M., (2008), Mechanical properties and water absorption of bentonite/polypropylene composite: Effect of titanate coupling agent, 6th International Materials technology Conference & Exhibition (IMTCE 2008), 24-27th August 2008, Kuala Lumpur.
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11. Mohamed Islam, N. Zalikha, Othman, N., Ismail, H., Ahmad, Z., (2009), Effect of pro-degradant additive on natural exposure of polypropylene film, 1st Regional conference on materials 2009 (RCM 2009), 16-17 February 2009, Penang, Malaysia.
12. Othman, N., Mohd Azahari, N. Diyana., Ariffin, K.S., (2009), A study on zeolite reinforced polypropylene composites, 4th International conference on recent advances in materials, minerals & environment and 2nd Asian symposium on materials & processing (RAMM & ASMP 2009), 1-3 June 2009, Penang, Malaysia.
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Invited Lecture:

1. Introduction to Resume, Career Development Program, New Academic Session 2013/2014, Engineering Campus, USM, Penang, 7 & 14 September 2013

Research Grant

(a) International

1. AUN /SEED-NET grant, Studies on the Effect of Maerogel Fillers in Natural Rubber Composites, AUN /SEED-NET, RM 4,745.50, 1/3/2011/2 years (Co-researcher).

(b) National

1. Yayasan Felda grant, Use of natural antioxidant from *Elaeis guineensis* (oil palm leaves) as an ageing retardant for natural rubber compound, Yayasan Felda, RM 141,800, (Project leader) 15 August 2008/ 3 years.
2. Fundamental Research Grant Scheme (FRGS) Fasa 1/ 2010, Friction and wear involving abrasion mechanisms in industrial components, MOSTI, RM 40,000, 9th Mei 2010/2 years, (Co-researcher)

(c) University

1. Incentive grant, Universiti Sains Malaysia, RM 5000, 13th February 2008/1 year.
2. Short term grant, Development of novel oxo-biodegradable polyolefin for packaging application, Universiti Sains Malaysia, RM 31,204, 6th Mei 2008/2 years, (Project leader).
3. Research University- Fundamental research grant scheme (RU-FRGS), Synthesis and water absorption of superabsorbent polymer based on waste polystyrene foam-g-acrylic monomer and composite, MOSTI, RM 68,100, (Project leader), 1 Jan 2011/3 years.
4. Short term grant, Development of biodegradable PVA/starch blend film for packaging application, Universiti Sains Malaysia, RM 38,000, 4th Nov 2010/2 years, (Project leader).
5. Research University - Individu (RUI) grant, Synthesis of rubber/attapulgite nanocomposite via combined latex compounding and melt mixing using silylated and cation exchange method, Universiti Sains Malaysia, RM 141,069.00, 15 December 2012/3 years (Main researcher/Project leader)
6. Research University - Individu (RUI) grant, Biodegradable polymeric flocculant based on cassava starch-grafted polydiallyldimethylammonium chloride, Universiti Sains Malaysia, RM 222,685, 1st Mei 2011/3 years, (Co-researcher).

Graduate Supervision

(i) Ph.D

1. Mohamad Kahar Abd Wahab, Preparation and characterisation of HDPE/NR blend reinforced with rice starch and nanoclay composites, **Completed**.
2. Shazlin Mohamed Shaari, Characterisation and properties of chitosan filled natural rubber compounds, **On-going**.
3. Norjulia Ahmad Mahir, Kenaf/Rubber composites, **On-going**.
4. Dalina Samsudin, Chemical and physical properties of liquefied coconut coir husk novolac resin, **On-going**.

(ii) Master Degree (Research)

1. Nur Diyana Mohd Zahari, Fabrication of halogen free polymeric material based on layered structure filler for wire and cable application, **Graduated: April 2012.**
2. Nor Hasmaniza Husna Suhaimi, Effect of natural antioxidant as aging retardant in natural rubber compound. **Completed.**
3. Noor Zalikha Mohamad Islam, Effect of pro-degradant additive on degradation behaviour of polyolefin films, **Graduated:September 2011.**
4. Ahmad Faisal Mohd Ramly, Effect of multiwall carbon nanotube on properties of natural rubber, **Graduated:September 2011.**
5. Nurul Farhana Omar, Preparation and characterisation of waste tyre dust/carbon black hybrid filled natural rubber, **Graduated:September 2012.**
6. Nur Raihan Mohamed, Synthesis and water absorption of superabsorbent polymer based on waste polystyrene foam-g-acrylic monomer and composite, **Graduated:September 2012.**
7. Nur Azleen Azahari, Preparation and characterisation of PVA/corn starch blend film, **Graduated:September 2012.**
8. Komethy a/p Muniandi, Curing characteristics and mechanical properties of rattan sawdust filled natural rubber compound, **Graduated:September 2012.**
9. Nurshamila Shaari Balakrishna, Kenaf fibre reinforced polylactic acid composite: Effects of surface treatment on mechanical and biodegradation properties. **Graduated:September 2013**
10. Lay Macara, Studies on the effect of Maerogel fillers in natural rubber composites, **Graduated:September 2013**
11. Nurhuda Hidayah Nordin, Synthesis and characterization of carbazole incorporated polysiloxane for LED encapsulation **Graduated:September 2013**
12. Nor Aina Md Nor, Synthesis of rubber/attapulgitic nanocomposite via combined latex compounding and melt mixing using silylated method, **On-going.**
13. Siti Nadzirah Abdul Muttalib, Synthesis of rubber/attapulgitic nanocomposite via combined latex compounding and melt mixing using cation exchange method, **On-going.**

ACADEMIC RECOGNITION AND LEADERSHIP

INTERNATIONAL

1. Chairperson, Parallel session (Multifunctional materials) in Eurofillers 2009, 21-25 June 2009, Alessandria, Italy
2. Committee member, 2009, 1st AUN-SEED/Net Regional Conference on Material Engineering, Penang, Malaysia
3. Committee member, 2009, Asian Workshop on Polymer Processing (AWPP 2009), Penang, Malaysia
4. Session Chairman, 8th International Conference on Composite Science and Technology 2011, 22-24 March 2011, Kuala Lumpur, Malaysia.
5. Technical Committee for the 8th Asian-Australasian Conference on Composites Materials (ACCM 8), Kuala Lumpur, 6-8 November 2012.

6. USM Representatives for Bench Marking Exercise on Polymer Engineering Program at London Metropolitan University, 13-14 June 2012.
7. Committee member, 5th International Conference on Recent Advance on Materials, Mineral & Environment (RAMM & MAMIP 2014), 5 – 7 Mei 2015, Penang, Malaysia.

NATIONAL

8. Graduate Assistant Scheme (Research), Jul 2005-Jun 2006, Master & PhD, Universiti Sains Malaysia, Malaysia.
9. Graduate Assistant Scheme (Teaching), Jul 2005- Jun 2007, PhD, Universiti Sains Malaysia, Malaysia.
10. Petronas Overseas Loan Fund, 1994-1996, Bachelor Polymer Engineering, Petronas, Malaysia.
11. Receptient, Hadiah Sanjungan 2009 – Jurnal Publication Category, Universiti Sains Malaysia, Malaysia.
12. Receptient, Hadiah Sanjungan 2009 – Jurnal Publication Category, Universiti Sains Malaysia, Malaysia.
13. Receptient, Hadiah Sanjungan 2010 – Jurnal Publication Category, Universiti Sains Malaysia, Malaysia.
14. Chairperson, Parallel session (Polymer) in 2nd Colloquium on Postgraduate Research: National Posygraduate Colloquium on Materials, Minerals and Polymers 2004 (MAMIP 2004). Universiti Sains Malaysia, Malaysia.
15. Chairperson, Parallel session (Polymer) in 3rd Colloquium on Postgraduate Research: National Posygraduate Colloquium on Materials, Minerals and Polymers 2007 (MAMIP 2007). Universiti Sains Malaysia, Malaysia.
16. Chairperson and oral evaluator, Parallel session (Polymer) in 10th National Symposium On Polymeric Materials (NSPM 2010). Universiti Sains Malaysia, Malaysia.
17. Poster evaluator of The 10th National Symposium On Polymeric Materials (NSPM 2010). Universiti Sains Malaysia, Malaysia.
18. Speaker at Rubber Technology & Standard Test Method Workshop, 14-15th July 2011, SMMRE, Universiti Sains Malaysia, Malaysia.
19. Speaker at Polymer Characterisation: Understanding & Application Workshop, 22-23rd November 2011, SMMRE, USM.
20. Chairperson and oral evaluator, National Symposium on Polymeric Materials (NSPM 2012). USM, Malaysia
21. Receptient, Hadiah Sanjungan 2011 (7 papers) – Jurnal Publication Category, USM, Malaysia.
22. Receptient, Hadiah Sanggar Sanjung 2011 – Jurnal Publication Category, USM, Malaysia.
23. Judge, 3rd PRIM Student Chapter Carnival 2014, 29th – 31st October 2014, Universiti Malaysia Perlis, Malaysia.

Assessor / Examiner

Examiner for Thesis:

DOCTOR OF PHILOSOPHY

1. Internal Examiner, **PhD 2012**, Phua Yi Jing, Mechanical, Thermal, Degradation and Morphological Behaviours of Organo-Montmorillonite Filled Poly(Butylenes Succinate) Nanocomposites.

- Internal Examiner, **PhD 2013**, Mathialagan A/L Muniyadi, Preparation and properties of bentonite filled ethylene propylene diene monomer (EPDM) composites.

MASTER BY RESEARCH

- Internal Examiner, **M.Sc. (Research Mode) 2011**, Nabil Hayeemasae, The curing characteristics, thermal and mechanical properties of recycled poly (ethylene terephthalate) and hybrid recycled poly (ethylene terephthalate) filled natural rubber compounds.
- Internal Examiner, **M.Sc. (Research Mode) 2011**, Mohd Amin bin Ahmad Razali, A study of polydadmec induced flocculation in the treatment of pulp and paper mill waste water.
- Internal Examiner, **M.Sc. (Research Mode) 2011**, Yos Phanny, Studies on degradation behaviour of natural rubber composites for engine mount component.
- Internal Examiner, **M.Sc. (Research Mode) 2011**, Ooi Zhong Xian, Preparation and properties of biodegradable polymer blended film based on polyvinyl alcohol and tropical fruit waste flour.
- Internal Examiner, **M.Sc. (Conversion to PhD) 2011**, Effect of sago starch on properties of polyvinylalcohol film composites, Nor Fasihah bt zaaba.
- Internal Examiner, **M.Sc. (Research Mode) 2012**, Effect of filler loading and different prpeparation methods on properties of cassava starch/natural rubber composites, Nguyen Quang Duy.
- External Examiner, **M.Sc. (Research Mode), 2015**, Characterisation of polycaprolactone/tapioca starch composites films compatibilized by chitosan (**UTM**)

MASTER (MIXED MODE)

- Internal Examiner, **M.Sc. (Mixed Mode) 2009**, Tan Pi lin, Studies on mechanical, thermal and morphological properties epoxy/carbon nanotube nanocomposites.
- Internal Examiner, **M.Sc. (Mixed Mode) 2010**, Shahrani Yahya Arif, Studies on the effect of natural fillers on the mechanical and biodegradability of natural rubber latex.
- Internal Examiner, **M.Sc. (Mixed Mode) 2013**, Ahmad Fikri Abdul Karim, Preparation and properties of polystyrene/styrene butadiene rubber/wollastonite composites

Visiting Lecturer / Visiting Scientist / Visiting Fellow / Visiting Professor

INTERNATIONAL

- Visiting Scientist, Polymer laboratory, Politecnico de Torino, Sede di Alessandria, Alessandria, Italy, 25 June 2009.
- Visiting Lecturer, Education Interaction Trip Malaysia-Thailand, Centre of Excellence in Natural Rubber Technology, Prince of Songkla University, Pattani Campus, Rusa Milae, Muang Pattani, 94000 Pattani, Thailand starting on 30th March to 2nd April 2011.
- Visiting Lecturer, Education Interaction Trip Malaysia-Indonesia, University Sumatera Utara, Medan, Indonesia, 4-7 April 2012.
- Visiting Lecturer, London Metropolitan University Polymer Centre, London Metropolitan University, United Kingdom, 13-14 June 2012.
- Visiting Lecturer, School of Engineering, Liverpool University, Merseyside, United Kingdom, 15 June 2012.
- Visiting Lecturer, Education Interaction Trip Malaysia-Vietnam, Ho Chi Minh University of Technology, Vietnam, 25-28 February 2013.

7. Visiting Lecturer, Education Interaction Trip Malaysia-Vietnam, Rubber Research Institute of Vietnam, 25-28 February 2013.
8. Visiting Scientist, Bioproducts Discovery & Development Centre (BDDC), University of Guelph, Canada, 26th May 2014.
9. Visiting Scientist, Faculty of Industrial Technology, Institut Teknologi Bandung, Bandung, Indonesia, 20th November 2014.

Editorial Board Member:

INTERNATIONAL

Journal of Composites & Biodegradable Polymers, Science Publisher (April 2014-present)

NATIONAL

MicroSOM (2012-present)

Reviewing Articles in Academic Journals / Assessor of Working Papers / Reviewing Books

INTERNATIONAL

1. 1st Regional Conference on Materials 2009 Post Proceeding
2. Journal of Applied Polymer Science.
3. Carbohydrate Polymers.
4. Journal of Reinforced Plastics and Composites.
5. Iranian Polymer Journal.
6. Journal of Industrial and Engineering Chemistry.
7. Journal of Vinyl and Additive Technology.
8. Advanced Materials Research
9. International Journal of Materials Engineering Innovation (IJMatEI)
10. ACCM8 Conference Proceeding
11. Journal of Materials Science,
12. Journal of Elastomer & Plastics
13. Polymer Engineering & Science
14. Journal of Polymer Research
15. Polymer and Its Application – Book Chapters (Publisher: Universiti Teknologi Malaysia Press)

NATIONAL

16. Malaysian Journal of Microscopy/Electron Microscopy society Malaysia.
17. Malaysian Polymer Journal.
18. Journal of Physical Science.

19. NSPM 2012 Conference
20. Malaysian Journal of Analytical Sciences

Member in Professional / Academic Associations

NATIONAL

1. Ordinary Member, (2008-present), Institute Materials Malaysia
2. Ordinary member, (2008-present), Plastics Rubber Institute Malaysia.
3. Member, (2008-present), Board of Engineer Malaysia.
4. Member, Persatuan Staf Islam Universiti Sains Malaysia (PSIUSM), Membership No: N09/097.
5. Member, Cluster for Polymer Composites USM

Committee Member (Conference / Seminar /Workshop)

INTERNATIONAL

1. Committee member, 2009, 1st AUN-SEED/Net Regional Conference on Material Engineering
2. Committee member, 2009, Asian Workshop on Polymer Processing (AWPP 2009).
3. Judge for poster competition, 2 June 2009, 4th International conference on recent advance in materials, mineral & environment and 2nd Asian symposium on materials & processing 2009 (RAMM & ASMP 2009)
4. Technical Committee, 6-8 November 2012, 8th Asian-Australasian Conference on Composites Materials (ACCM 8), Kuala Lumpur.
5. Advisory & reviewer board member, 8-9 August 2014, International Workshop on Material Science and Engineering, Istanbul, Turkey (IWMSE 2014).

NATIONAL

6. Treasurer, (2004), 2nd Colloquium on Postgraduate Research: National Postgraduate Colloquium on Materials, Minerals and Polymers 2004 (MAMIP 2004).
7. Treasurer, (2008), VIIIth National Symposium on Polymeric Materials (NSPM 2008).
8. Committee member, 14-16 February 2012. Nanotechnology: Through old school approach Part II: Break the barrier: Micro to Nanoworld,
9. Committee Member, 3-5 October 2012, 12th National Symposium on Polymeric Materials 2012 (NSPM 2012)
10. Committee Member, 2012, Bengkel Menggubal Dasar Plagiat USM,

SERVICE TO THE UNIVERSITY

Administration

1. Coordinator for Short Laboratory Attachment Program, 17-27th October 2011 – MOA activity between School of Materials and Mineral Resources Engineering, USM and Faculty of Science and Technology,

Prince Songkla University, Thailand.

University Committee

1. Chairman, Jawatankuasa Bertindak Pelaksanaan Dasar Bahasa Malaysia, School of Material & Mineral Resources Engineering, USM Engineering Campus, 2013-2015.
2. Chairman, Jawatankuasa Istilah dan Penterjemahan, School of Material & Mineral Resources Engineering, USM Engineering Campus, 2013-2015.
3. Member, Jawatankuasa Ijazah Tinggi & Penyelidikan, School of Material & Mineral Resources Engineering, USM Engineering Campus, 2013-2015.
4. Committee Member, Penggubalan Dasar Plagiat USM – Jawatankuasa Kecil Pengisian Pengesan, USM.
5. Committee Member, Lawatan Staf Prince of Songkla University, Thailand on 19– 21st December 2012.

School Committee

1. Committee member, School of Materials & Mineral Resources Engineering Family Day, 2008.
2. Committee member, School of Materials & Mineral Resources Engineering Orientation Week, 2008/2009.
3. Judge, Industrial training poster presentation 2008, School of Materials & Mineral Resources Engineering, University Sains Malaysia on 1st August 2008.
4. Assessor for Industrial training report 2009, School of Materials & Mineral Resources Engineering, University Sains Malaysia.
5. Judge, Industrial training poster presentation 2009, School of Materials & Mineral Resources Engineering, University Sains Malaysia on 13th August 2009.
6. Organising committee, Industrial training poster presentation 2009, School of Materials & Mineral Resources Engineering, University Sains Malaysia on 13th August 2009.
7. Mentor, Program Intervensi Akademik Pelajar, School of Materials & Mineral Resources Engineering, University Sains Malaysia on 13th August 2009. 2nd July 2010.
8. Committee Member, Penyediaan Kit Publisiti Pusat Pengajian Kejuruteraan Bahan dan Sumber Mineral, 2010.
9. Alumni Committee Member (Protem) Inconjunction with 25th years Anniversary of School of Materials & Mineral Resources Engineering, University Sains Malaysia, 2010.
10. Committee Member, Self Assessment Report Preparation Committee 2012, 19th March 2012.
11. Committee Member, Majlis Sambutan Siswa, School of Materials & Mineral Resources Engineering, University Sains Malaysia, 2012/2013.
12. Participant in QA : Importance of EAC Manual 2012, University Sains Malaysia Engineering Campus.
13. Committee Member, 2013-2015, Jawatan Kuasa Ijazah Tinggi & Penyelidikan Pusat Pengajian Kejuruteraan Bahan dan Sumber Mineral.
14. Interviewer, 14th March 2013, Career Fair 2013 University Sains Malaysia Engineering Campus

SERVICE TO THE COMMUNITY

International

1. Participant, Pre-conference short course on Compounding and Reinforcement of Rubbers – Malaysian Rubber Board & IRCO, Jln. Ampang, KL, 20th Oct. 2008
2. Participant, International Training Program, Plastic products manufacturing (How to make quality plastics parts in affordable ways), 25-28 January 2010, Kuala Lumpur, Malaysia.

National

1. Participant, Kursus Sepunya Rancangan Ijazah Tinggi, School of Material and Mineral Resources Engineering, USM Engineering Campus, Penang. 19-23 Mei 2003
2. Participant, X-Ray 2004 Workshop on "X-Ray Analysis & Its Applications", School of Material and Mineral Resources Engineering, USM Engineering Campus, Penang. 2nd - 3rd June 2004.
3. Participant, Scientific Writing Workshop, School of Material and Mineral Resources Engineering, USM Engineering Campus, Penang. 29th April 2004.
4. Participant, "Nanomaterials": Theory, Synthesis and Characterisation, School of Material and Mineral Resources Engineering, USM Engineering Campus, Penang. 31st- 4th February 2005.
5. Participant, Statistical Techniques, School of Material and Mineral Resources Engineering, USM Engineering Campus, Penang. 29-30th August & 1-2 September 2005.
6. Participant, Interpersonal skill seminar, Seminar room, Administration building, USM Engineering Campus, Penang. 19th January 2006.
7. Participant, A short course on polymeric materials: Recent development and applications, School of Material and Mineral Resources Engineering, USM Engineering Campus, Penang. 13-14th February 2006.
8. Participant, Learning and teaching course, Seminar room, Administration building, USM Engineering Campus, Penang. 8th February 2007.
9. Participant, Fundamental research on thermal analysis, School of Material and Mineral Resources Engineering, USM Engineering Campus, Penang. 30th April 2008.
10. Participant, Biomaterial, School of Material and Mineral Resources Engineering, USM Engineering Campus, Penang. 30th January 2008.
11. Participant, Teaching and Learning Courses USM, Seminar room, School of Electrical and Electronic, USM Engineering Campus, Penang. 12-22nd Mei 2008.
12. Participant, Induction Course, Seminar room, Administration building, USM Engineering Campus, Penang. 3-18th Jun 2008.
13. Participant, Total Analytical Solution Penang Seminar, Perkin Elmer – Hotel Equatorial, Penang, 9th Oct 2008
14. Participant, The Plastic Forum@USM: Safety and Sustainability, University Conference Hall (DPU), USM, Penang., 1st Nov 2008
15. Participant, Bengkel OBE, Jawi Golf resort, Penang, 21 Januari 2010.
16. Accompany 2nd Year Polymer Engineering Students to Industrial Trip 2010 to Cape Technology Sdn. Bhd. Bayan Lepas, Penang, Trip organised by: MIMATES, SMMRE USM.
17. Participant, ESQ Leadership Seminar, Kompleks Tabung Haji, Bayan Lepas, Penang, 23-25 Februari 2010.
18. Accompany 2nd Year Polymer Engineering Students to Industrial Trip 2010 to Mardec Baling

Processing Sdn. Bhd, Baling, Kedah. Trip organised by: Polymer Engineering Students, SMMRE USM.

19. Participant, A Seminar & Workshop on Scholarly Publishing 'What it takes to publish', 28-30 September 2010, Bayview Beach Resort, Penang, Malaysia.
20. Participant, EQ Genius Seminar, Seminar Room, Sch. Of Materials & Mineral Resources Engineering, USM, Penang.
21. Participant, Siri Seminar QA: Kecemerlangan Akreditasi, 9 Mac 2011, Dewan Seminar, Kampus Kejuruteraan USM, Organised by Bahagian Kualiti dan Akreditasi, Pejabat Pengarah, Kampus Kejuruteraan USM.
22. Participant, Safety & Health at Work, 20-21 Julai 2011, Organised by IEM Training Centre Sdn. Bhd.
23. Participant, DR.BOY Injection Moulding Machine, 22-23 Sept 2011, Organised by SMMRE, USM.
24. Participant, 1st Series of Outcome Based Education Workshop 2012, 2nd February 2012, SMMRE, USM
25. Participant, USM-Elsevier Author Worksho 2012 – How to published in a research journal, 27 February, Auditorium, USM.

District / Village / Institution

1. Participant, Lawatan Ziarah ke Rumah Orang Tua Islam at Darul Hidayah Permatang Tok Gelam, Penaga on 24 September 2008
2. Participant, Pameran Sempena Sambutan 1 Dekad SERI, 19 Nov 2011, Sek Men. Islam Ad-Diah, Sg Rambai, Penang.
3. Participant, Lawatan ke Rumah Anak Yatim Piatu at Batu Kurau & Padang Rengas, Perak on 17/2/2012