



Curriculum Vitae

I. Personal Particulars

Name: Zulkifli Ahmad

Current position: Lecturer

Position applied for: Senior Lecturer

II. A. Academic and Professional Qualifications (Please list all academic qualifications, from your first degree, in chronological order)

Year	Degree	Discipline	University
1985	B.Sc(Hons)	Chemistry	Essex University
2001	M.Sc	Polymer Chemistry	Univ. Sains Malaysia
2006	Ph.D	Polymer Synthesis	Univ. Of Reading

B. Titles of postgraduate theses

M.Sc: Effect of Quaternary Ammonium Salt in Carbon Black and Silica filled Natural Rubber

Ph.D: Synthetic and structural investigation of High performance Aromatic Polymers.

III. Work Experience (Please list your relevant experiences in chronological order)

Year	Position	Field of Work	Place of Work
1985 - 1986	Instructor	Handling tutorial and laboratory classes	School Of Chemical Sciences, USM
1986 - 2001	Teacher	Handling tutorial and laboratory classes	Matriculation Centre, USM
2001 - 2002	Teacher	Handling tutorial and laboratory classes	School of Industrial Technology
2002 - 2006	Lecturer	Handling lectures, tutorials and Laboratory classes	School of Material and Mineral Resources, USM

IV. Main Current Research Areas (Please list a maximum of three)

1. Synthesis, characterisation and property studies of epoxy resin, polyimides and polysiloxanes
2. Chemical modification of chitosan
3. Synthesis and development of degradable polymer

In this section of your **Curriculum Vitae**, you are requested to assess your contributions, which will be evaluated according to the specific categories. Each activity is to be listed in one category only. You are requested to award marks for each of the activities. Please list all the activities in chronological order. For multiple contributors/authors or in the case of team teaching, please indicate the number of contributors/authors.

1.0	RESEARCH AND PUBLICATION	Marks Awarded	
1.1	Research Publications	Candidate	Appraisal Committee
(a)	<p>Research Book/Monograph</p> <p>(i) Research Book (each publication)</p> <ul style="list-style-type: none"> ● International - 21 – 24 marks ● National - 12 – 15 marks <p>(ii) Monograph (each publication)</p> <ul style="list-style-type: none"> ● International - 9 - 10 marks ● National - 7 – 8 marks <p>Please list authors, year, title, publisher and number of pages.</p>		
(b)	<p>Journal/E-Journal/Journal Proceeding (each publication)</p> <ul style="list-style-type: none"> ● International - 3 – 5 marks 7 (non ISI international database) 10 (ISI) ● National - 3 marks <p>Please list authors, year, title, publisher and number of pages.</p> <ol style="list-style-type: none"> 1. Ismail, H. and Ahmad, Z. Effect of multifunctional additive on curing characteristics and mechanical properties of carbon black-filled natural rubber.(1996) <i>Iranian Polymer Journal</i>, vol. 5(3) p.207- 212 2. Ismail, H; Ahmad, Z and Mohd. Ishak, Z.A. Comparison of cetyltrimethyl ammonium maleat and sulphenamido as an accelerator in carbon black –filled natural rubber. (2001) <i>Journal of Polymer Testing</i> , Vol 20, p607 – 614. 3. Ismail, H; Ahmad, Z and Mohd. Ishak, Z. A. The effect of quaternary ammonium salt on the properties of carbon black-filled natural rubber.(2001) <i>Polymer International</i>, Vol 50, p612 – 618. 4. Ismail H, Ahmad Z, Mohd Ishak Z. A. (2003): Effect of cetytrimethylammonium maleate on curing characteristics and mechanical properties of polychloroprene rubber. <i>Polymer Testing</i>, 22, p179-183. 5. Ismail, H. Noh, N.A. and Ahmad, Z. Comparative study of multi-functional additive and sulphenamido as an accelerator in carbon black-filled natural rubber. <i>Journal of Industrial Technology(SIRIM)</i>. Vol 6(1) p.57-66. 6. Synthesis and crystal structure of aromatic polysulfone”, Z. Ahmad, W. Mortimore and H.M. 	<p>7</p> <p>10</p> <p>10</p> <p>10</p> <p>3</p>	

	<p>International - 2 marks National - 1 marks</p> <p>Please list title, conference, venue and year</p> <ol style="list-style-type: none"> 1. Structural studies via computational simulation of a series of aromatic polysulfones. Colquhoun, H.M and Ahmad, Z. <i>User Group meeting, Accelrys Cambridge, 334, Cambridge Science Park, Cambridg, United Kingdom. 17 – 18 July 2003</i> 2. Diffraction and simulation techniques in elucidating crystal structure of aromatic polysulfones; <i>IXth International Conference on Frontiers of Polymers & Advanced Materials</i>, Z. Ahmad and H.M. Colquhoun, Krakow, Poland July 8 – 12, 2007 3. Nurhidayatullaili Muhd Julkapli, Zulkifli Ahmad and Hazizan Md Akil, “Degradability of kenaf dust filled chitosan biocomposites”, <i>International Conference on Natural Polymers, Bio-Polymers, Bio-Materialas, their Composites, Blends, IPNs, and Gels: Macro to Nano Scales (ICNP – 2007)</i>: November 19-21, 2007, Kottayam; Kerala,India 4. Synthetic and crystallography studies of 4,4'-biphenylene based polyketone- Z. Ahmad and H.M. Colquhoun, <i>12th Asian Chemical Congress, August 23 – 25 2007, PWTC, Kual Lumpur.</i> 5. Curing and characterization of 1,2,4,5-benzenetetracarboxylic with chitosan, <i>N.M. Julkapli, Z.Ahmad and H.M.Akil, 12th Asian Chemical Congress, August 23 – 25 2007, PWTC, Kual Lumpur.</i> 6. Synthesis and crystal structure of aromatic polysulfone”, Z. Ahmad, W. Mortimore and H.M. Colquhoun, <i>The 2nd International Conference on Solid State Science and Technology</i>, KUSTEM, Trengganu, Malaysia, September 2006. 7. Characterization of Biodegradable PLLA/PCL and PLLA/PBSL polymeric blends, V. Vilay, M. Mariatti, Zulkifli Ahmad, K. Phasomsouk, Mitsugu Todo, <i>6th Asian-Australian Conference on Composite Materials</i>, 23 - 26 Sept 2008, Kumamoto University, Japan 8. Nguyen Minh Luan, Hazizan Md Akil, Zulkifli Ahmad, Hiroo Iwata, Suong Hyu Hyon and Nguyen Huu Nieu, “Characterization of poly (L-lactide acid/Poly (ε-caprolactone) copolymer for scaffold application”, <i>Proceedings 10th Asean University Network/South East Asia Engineering Education Development Network (AUN/SEED-Net) Field-wise seminar 2007</i>, The Gurney Hotel, Penang, Malaysia (5-6th June 2007) 9. Quaternary ammonium surfactants-filled natural rubber compounds: Mechanical properties and morphological study. <i>7th conference of Electron Microscopy Society, Veterinary Research Institute, Ipoh, Malaysia. 27 – 28</i> 	<p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>1</p>	
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	<i>Nov 1998</i>		
	10. The effect of Quaternary ammonium salt on the properties of carbon black filled natural rubber, H. Ismail, Z. Ahmad, ZAM Ishak, <i>National Symposium on Polymer Materials 2000</i> , 1 – 2 June 2000, Conference Room, School of Industrial Technology, USM, Penang.	1	
	11. Effect of quaternary ammonium surfactant on the curing and mechanical properties of silica-filled natural rubber compound. <i>IMT-GMT regional conference on industrial transformation through innovative utilization of natural resources</i> . Conference Hall, University Sains Malaysia, Penang, Malaysia. 2 – 3 Nov 1999.	1	
	12. The effect of quaternary ammonium surfactant on the properties of carbon black-filled natural rubber compounds. <i>Regional conference on polymeric materials 1998</i> . Conference Hall, School of Industrial Technology, University Sains Malaysia, Penang Malaysia. 10 – 11 Nov 1998	1	
	13. The effect of quaternary ammonium salt on the properties of carbon black-filled natural rubber compounds, <i>National Symposium on Polymeric Materials 2002</i> , Conference Room, School of Industrial Technology, USM, Penang, Malaysia. 1 – 2 June 2002	1	
	14. The morphology and physical effect of micronised Quartz Muscovite admixture in PVC reinforcement and performance. Mohd Izwan Mohd Puad, Kamar Shah Arifin, Zulkifli Ahmad and Azhar Abu Bakar. <i>3rd Colloquium on Postgraduate research on Materials, Minerals and Polymers 2007</i> , Vistana Hotel, Penang, 10 – 11 April 2007.	1	
	15. Synthetic and crystallographic studies on high performance polymers. Colquhoun, H.M; Ahmad, Z and Aldred, P.L. <i>Macro Group UK Young Researchers Meeting</i> . University of Sheffield. 6 – 7 April 2000 - poster	1	
	16. Degradability of Kenaf Dust-filled Chitosan bio-composite. Nurhidayatullaili Muhd Julkapli, Zulkifli Ahmad and Hazizan Md Akil, <i>3rd Colloquium on Postgraduate research on Materials, Minerals and Polymers 2007</i> , Vistana Hotel, Penang, 10 – 11 April 2007. - poster	1	
	17. Modification of chitosan powder using 1-adamantane carbonyl chloride monomer.. Ku Marsilla Ku Ishak, Zulkifli Ahmad and Hazizan Md. Akil, <i>2nd Penang ICYC2008, 18 – 20 June 2008 Universiti Sains Malaysia</i>	2	
	18. Comparative study of thermoplastic elastomers based on PP/NBRv and PP/NBRr blends., D.D.D Galpaya, Z.Ahmad, H. Ismail, <i>2nd Penang ICYC2008, 18 – 20</i>	2	

	<p><i>June 2008 Universiti Sains Malaysia</i></p> <p>19. Preparation and characterization of soya powder/LLDPE composites, S.T.Sam, Z.Ahmad, H. Ismail, <i>2nd Penang ICYC2008, 18 – 20 June 2008 Universiti Sains Malaysia</i></p> <p>20. Mechanical Property and Morphologies Characterization of Biodegradable PLLA/PCL Polymeric Blends. V. Vilay, M. Mariatti, Zulkifli Ahmad, K. Phasomsouk, Mitsugu Todo, International Conference and Exhibition on Composite material & Nano-Structure, 5 – 7 August 2008, Melaka</p> <p>21. Synthesis Of Porous Polyimide Of Low Dielectric Constant, Zulkifli Ahmad and Hazizan Md. Akil Muhammad Bisyrul Hafi Bin Othman, <i>6th International Materials Technology Conference and Exhibition (IMTCE 2008) 25 – 28 August 08, Kuala Lumpur.</i></p> <p>22. Synthesis and characterization of cis-5-norbonene-2,3-dicarboxylic anhydride-chitosan. Ku Marsilla, Zulkifli Ahmad, Hazizan Md. Akil, International Conference on X-rays and related techniques in Research and Industries 2008 ICXRI 2008, 2 – 6 June 2008, Universiti Malaysia Sabah, Malaysia.</p>	2	
		2	
		2	
		2	
(f)	<p>Patent (each patent)</p> <ul style="list-style-type: none"> ● International - 4 marks ● National - 3 marks 		
TOTAL		87	

		Marks Awarded	
1.2	Publications Related to Teaching	Candidate	Appraisal Committee
(a)	<p>(i) University Textbooks</p> <p>(ii) Chapter in University Text Book</p>		
(b)	<p>(i) First Edition</p> <p>(ii) Translation</p>		
(c)	<p>(i) Teaching Modules</p> <p>(ii) Fast Print Edition</p>		

	<p>(iii) Co-researcher will be awarded 1 mark each.</p> <p>1. Science Fund - Development Of New Thermoplastic Elastomers (Tpe's) Based On Ethylene Vinyl Acetate (Eva) / Natural Rubber (SMR L) Blends , Prof Hanafi Ismail</p> <p>2. FRGS – RM80,000.00 Modification of Chitosan powder from natural resources - Dr. Hazizan Md Akil</p>	1	
		1	
(c)	<p>University</p> <p>(i) Project Manager will be awarded 2 marks each.</p> <p>1. Short terms USM (August 2006 – August 2008): - RM19,200.00 Project title: Synthesis of Epoxy resin of low thermal expansion</p> <p>2. Short terms USM (May 2008 – May 2010) - RM37175.00 Project title: Synthesis and optoelectronic studies of polysiloxanes.</p> <p>ii. Co-researcher will be awarded 1 mark each.</p> <p>1. Short terms USM (May 2008 – may 2010) Project title: Development of novel Oxo-biodegradable Polyolefin for packaging application (Dr. Nadras Othman) RM31204.00</p>	2	
		2	
		1	
TOTAL		14	

		Marks Awarded	
1.4	Other Publications Please list authors, year, title and publisher	Candidate	Appraisal Committee
(a)	<p>(i) Textbooks (each book)</p> <p>(ii) Popular Academic Books Each piece of work will be awarded 2 marks.</p>		
(b)	<p>Editing of Books/Videos and Others Each piece of work will be awarded 1 – 4 marks.</p>		
(c)	<p>CAI/Multimedia Material Each piece of work will be awarded 1 - 3 marks.</p>		
(d)	<p>Video/Audio Each piece of work will be awarded 1 - 2 marks.</p>		

(e)	Novel/Literature Anthology/Anthology of Poems Each piece of work will be awarded 1 - 2 marks. Please list authors, year, title, publisher and number of pages.		
(f)	Mass Media (Main Stream) Each publication will be awarded 1 mark. Please list authors, year/date, title and publisher.		
(g)	Reports Clinical reports will be awarded 1 mark. Technical reports will be awarded 1 mark. Standard Operations Procedure will be awarded 1 - 2 marks.		
TOTAL			

		Marks Awarded	
2.0	TEACHING AND SUPERVISION	Candidate	Appraisal Committee
(a)	<p>Undergraduate Teaching/Post-Graduate Teaching Each course taught in each semester, will be awarded 1 mark. Every course with an enrolment of over 200 students will be awarded 1 additional mark. Marks for team teaching will be divided according to the number of lecturers teaching the course. Please list course title, semester, year, level, number of lecturers involved and number of students per course.</p> <p>1. Polymer Organic Chemistry, Sem 1, 2006/07, Year 1, 2 lecturers, 47 students</p> <p>2. Polymer Synthesis, Sem 1, 2006/07, Year 2, 1 lecturer, 55 students</p> <p>3. Plastic Laboratory, Sem 1, 2006/07, Year 4, 5 lecturers, 47 students</p> <p>4. Resin Manufacturing, Sem 2, 2006/07, Year 3, 2 lecturers, 50 students</p> <p>5. Polymer Eng. Laboratory, Sem 2, 2006/07, Year 2, 5 lecturers, 55 students</p> <p>6. Polymer Organic Chemistry, Sem 1, 2007/08, Year 1, 2 lecturers, 37 students</p> <p>7. Polymer Synthesis, Sem 1, 2007/08, Year 2, 1 lecturer, 47 students</p> <p>8. Plastic Laboratory, Sem 1, 2007/08, Year 4, 5 lecturers, 50 students</p> <p>9. Specialty Polymer, Sem 2, 2007/08, Year 4, 1 lecturer, 50 students</p> <p>10. Polymer Eng. Laboratory, Sem 2, 2006/07, Year 2, 5 lecturers, 47 students</p> <p>11. Hubungan etnik, Sem 2, 2006.2007, Year 2, All 2nd Year students, 25 lecturers</p> <p>12. Hubungan etnik, Sem 2, 2006.2007, Year 2, All 2nd Yer students, 25 lecturers</p> <p>13. Teknik Berfikir, Sem 1, 2007/2008, Tahun 2, 9 Lecturers, 15 Students</p>	<p>0.5</p> <p>1</p> <p>0.2</p> <p>0.5</p> <p>0.2</p> <p>0.5</p> <p>1</p> <p>0.2</p> <p>1</p> <p>0.2</p> <p>0.04</p> <p>0.04</p> <p>0.1</p>	

	<p>14. Kaedah Komputer untuk Jurutera, Sem 1, 2006/7, All 2nd Year students, 20 lecturers</p> <p>15. Kaedah Komputer untuk Jurutera, Sem 1, 2006/7, All 2nd Year students, 20 lecturers</p> <p>16. Polymer Organic Chemistry, Sem 1, 2008/09, Year 1, 2 lecturers, 37 students</p> <p>17. Polymer Synthesis, Sem 1, 2008/09, Year 2, 1 lecturer, 47 students</p> <p>18. Kaedah Komputer untuk Jurutera, Sem 1, 2008/09, All 2nd Year students, 19 lecturers</p> <p>20. Plastic Laboratory, Sem 1, 2008/09, Year 4, 5 lecturers, 47 students</p>	<p>0.05</p> <p>0.05</p> <p>0.5</p> <p>1</p> <p>0.2</p>	
(b)	<p>Graduate Supervision For each graduated student supervised please list name, the year of graduation and title of dissertation. Indicate whether as Main Supervisor or Co-Supervisor (state the number of supervisors involved).</p> <p>(i) Ph.D</p> <ul style="list-style-type: none"> ● Main Supervisor - 8 marks ● Co-Supervisor - 4 marks <ol style="list-style-type: none"> 1. Rafiza Ramli , May 2007 - On-going, Synthesis of high refractive index polysiloxane for use in LED encapsulant – main supervisor (Dr. Mariatti Jaafar) 2. Nurhidayatullaili Muhd Julkapli – Nov 2006 – on-going, Modification of chitosan powder from natural resources – co-supervisor (Dr. Hazizan Md Akil) 3. Razif Muhammed Nordin, Oct 2007 – on-going, Synthesis and study of mechanical properties of biodegradable polymer based polyethylene glycol – co-supervisor (Prof. Hanafi Ismail) 4. Amel N. Naji, Sept 2007 – on-going, Development and study of blend-based polymer composite – co-supervisor (Dr. Azhar Abu Bakar) 5. Vilay Vannaladsaysy, Sept 2007 – on-going, Preparation, Characterisation and property of degradable polymer composite – co-supervisor (Dr Mariatti Jaafar) 6. Sam Sung Tin, Sept 2007 – on-going, Preparation, characterization and properties of degradable polymer composite – co-supervisor (Prof. Hanafi Ismail) 7. Seyed Amiehossein Seyed Mehdi, Jan 2007 – on-going, Recycling of PET waste – co-supervisor (Prof. Hanafi Ismail) 8. Sonny Widiarto, Mac 2008 – on-going, A study of water-soluble polymer – co-supervisor (Prof. Madya Azlan Arifin) <p>(ii) Master Degree (Research)</p> <ul style="list-style-type: none"> ● Main Supervisor - 4 marks ● Co-Supervisor - 2 marks <ol style="list-style-type: none"> 1. Chaudary Ali Usman, Feb 2008 – on-going, The grafting of Diene Rubber with anhydride: Chemical Modification of Rubber – main supervisor (Dr Azura A. Rashid) 2. Ku Marsilla Ku Ishak, Aug 2007 – on-going, Modification of chitosan with various monomers – co-supervisor (Dr Hazizan Md Akil) 3. Nguyen Minh Luan, Oct 2006 – finished, Characterisation of PLLA-PCL copolymer for scaffold application – co-supervisor (Dr. Hazizan Md Akil) 4. Galpayage Dilini Galpaya, May 2007 – on-going, Curing Characteristic, mechanical and morphological studies of recycle acrylonitrile butadiene rubber blend – co-supervisor (Prof. Hanafi Ismail) 5. Siti Rohana yahya, Mac 2008 – on-going, Fundamental Studies on Diffusion and Oxidation reaction process of Elastomers – co-supervisor (Dr. Azura A Rashid) 6. Yew Fang Wei, Preparation and Properties of Waterborne and Latex polymer Pressure Sensitive adhesives, co-supervisor (Pfor. Hanafi ismail) 7. Faiezah Hashim, Penyediaan sifat-sifat komposit Santoprene diperkuat 	<p>2</p>	

	<p>dengan gentian kenaf – co-supervisor (Pfor. Hanafi Ismail)</p> <p>8. Yew Fang Wey, preparation and properties of waterborne acrylic latex polymers pressure sensitive adhesives. – Co-supervisor (Prof. Hanafi Ismail)</p> <p>(iii) Doctoral Dissertation (Mixed mode)/MMed (Mixed Mode)</p> <ul style="list-style-type: none"> ● Main Supervisor - 3 marks ● Co-Supervisor - 1 mark 		
	(iv) Master's Dissertation (Mixed Mode) (2 mark)		
	(v) Project (Coursework Mode) (1 mark per two projects)		
(c)	<p>Undergraduate Supervision Each of the following will be awarded 1 mark : final year project, projects for other years and industrial training/practicum/ community case studies. Please list name of student, year, and project title. Please append acknowledgment page of project report.</p> <p>(i) Final Year - (1 mark per 2 projects)</p> <ol style="list-style-type: none"> 1. Synthesis of low dielectric constant polyimide for electronic packaging <ol style="list-style-type: none"> i. Chua Tze Ping, 2007 ii. Law Shy kee, 2007 2. Synthesis and thermal properties of epoxy resin based on aromatic ring <ol style="list-style-type: none"> i. Rizuan Mustafa, 2007 ii. Mohd Syahmi Yusoff, 2007 3. Synthesis and effect of structure on a new epoxy resin <ol style="list-style-type: none"> i. Ho Hui Ling, 2007 ii. Yoo Kiao Wei, 2007 4. Synthesis of low dielectric constant polyimide <ol style="list-style-type: none"> i. Wong Kar Fatt, 2008 ii. Chan Wai How, 2008 5. Synthesis and thermal properties of epoxy resin <ol style="list-style-type: none"> i. Tang Sok Chin, 2008 6. Synthesis and study of silica-filled polysiloxane <ol style="list-style-type: none"> i. Nurul Farhana Omar, 2008 <p>(ii) Other Years - 100 % course work – (1 mark per 4 projects)</p> <p>(iii) Industrial Training/Practicum/Community Case Study - (1 mark per 5 students).</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>0.5</p> <p>0.5</p>	
(d)	<p>Professional Service Please list place/location, frequency and year. Each service will be awarded - 1 mark.</p> <p>(i) Continuous Education (per presentation)</p> <p>(ii) Practicals (per year)</p>		
	(ii) Supervision (per year)	13.78	

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		Marks Awarded	
3.0	ACADEMIC RECOGNITION AND LEADERSHIP	Candidate	Appraisal Committee
(a)	<p>Academic Awards (Recognition from a prestigious body for academic achievement) Please list award's name, year, level, awarding body and country.</p>		
(b)	<p>Assessor / Examiner</p> <p>(i) Academic Assessor/External Examiner/ Member of Board of Studies - 5 marks each.</p> <p>(ii) External Examiner for Thesis:</p> <p>(iii) Internal Examiner for Thesis:</p> <p>1. Studies on metal-filled epoxy for microelectronic packaging – Internal examiner, Tee Dee In – Master of Science (USM, 2006) mixed-mode</p> <p>2. Mechanical and radiopacity properties of denture base PMMA filled by Barium Titanate – Internal Examiner, Nidal Wanis Elshereksi – Master of Science (USM 2006)</p> <p>3. The properties of woven Pinang and Kenaf fibre reinforced polyestercomposite. Internal examiner, Lai Wai Lam, MSc (Mix-mode 2007)</p> <p>(iv) External Assessor for Promotion:</p>	<p>1</p> <p>2</p> <p>1</p>	
(c)	<p>Visiting Lecturer / Visiting Scientist / Visiting Fellow / Visiting Professor Please list position, place and dates/duration (minimum appointment period of 1 month).</p> <p>Visiting Lecturer / Visiting Scientist / Visiting Fellow / Visiting Professor Please list position, place and dates/duration (less than 1 month).</p> <p>Fellowship Please list position, place and dates/duration.</p>		
(d)	<p>(i) Reviewing Articles in Academic Journals / Assessor of Working Papers / Reviewing Books Please list editor (if applicable), year/duration, title and name of journal/publisher.</p> <ul style="list-style-type: none"> ● International - 3 - 4 marks ● National - 1 - 2 marks <p>1. 2006, Paper sludge filled natural rubber composite: Effect of epoxidation on tensile and fatigue properties –</p>	<p>2</p>	

	<p>Malaysian Journal of Microscopy</p> <p>2. 2006, Dynamic vulcanization of paper sludge filled PP/ethylene propylene diene terpolymer(EPDM) composites, Malaysian Journal of microscopy</p> <p>3. 2007, Effect of soaking in curatives on the morphology and tensile properties of NR latex film , Journal electron microscopy</p> <p>4. 2007, Kinetics of Radical Polymerisation of 1-vinyl 2-pyrrolidone in solution, The Malaysian Polymer Journal, Sept 2007</p> <p>5. 2008, Synthesis and fluorescence spectroscopy of CSA-Doped PANI solution in DMF when exposed to oxygen gas - The Malaysian Polymer Journal, Mac 2008</p> <p>6. 2008, Morphology study of styrene-modified Natural Rubber as rubber toughened material, Malaysian Journal of microscopy</p> <p>7. 2008, Properties of Epoxy-coated Cardierite filler composites, Malaysian Journal of microscopy</p> <p>(ii) Technical Assessor (per appointment) / Assessor for Grant Application (per appointment) Please provide details.</p> <p>(iii) Member of a Panel Discussion / Forum Please provide details</p>	2	
(e)	Editorial Board (per appointment) Please list position, name of journal and duration.		
(f)	Keynote Speaker (Conference / Seminar / Symposium and other similar academic forums) Please list authors, year, title, organiser and venue.		
(g)	Awards for Innovation Please list authors, year, title, organiser and venue.		
(h)	<p>Member in Professional / Academic Associations Please list post, year and association.</p> <p>(i) Exco Member (per appointment)</p> <p>(ii) Member (per society)</p> <p>(iii) Committee Member (Conference / Seminar / Workshop</p>		

(c)	Consultation Without Monetary Rewards (with appointment letter / consultation report)		
TOTAL		3	

		Marks Awarded	
5.0	SERVICE TO THE UNIVERSITY	Candidate	Appraisal Committee
(a)	Administration (per appointment) Please list position and duration.		
(b)	University Committee Please list membership, committee and duration/year. Candidate must be appointed as a member not by virtue of position. Each appointment will be awarded 1 - 2 marks.		
(c)	<p>School Committee Please list membership, committee and duration/year. Candidate must be appointed as a member not by virtue of position. Each appointment will be awarded 1 mark.</p> <p>1. Library Representative, April 2007- present</p> <p>2. Treasurer, 10t Aun/Seed NET Field-Wise seminar, Gurney Hotel, penang, Malaysia, 5 – 6 June 2007</p> <p>3. Judge - Industrial Training Poster Session, 2006</p> <p>4. Judge – Industrial Training Poster Session, 2007</p> <p>5. Coordinator, Polymer Eng. Laboratory, EBP216, Session 2007/08</p> <p>6. Invited speaker - Polymer Short Course for Intel Engineers –USM, 19 – 20 June 2007</p> <p>7. Ahli majlis Pusat Peng. Bahan dan Sumber Mineral (Appointed: Dec 2006)</p> <p>10. Com. Member, RAMM 2008, PPKBSM(Apointed March 2008)</p> <p>11. Ahli Jawatankuasa Kecil Fasiliti OBE</p> <p>12. Organising Commitee (Scientific Paper), 8th National Symposium of polymeric Materials, Naza Hotel Penang, 26 – 27 November 2008</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	
(d)	University Representative (Sports and Non-Academic Activities)		

TOTAL

10

6.0	SERVICE TO THE COMMUNITY	Marks Awarded	
		Candidate	Appraisal Committee
	Participation in activities at the following levels. Please list activities, venue and dates.		
(a)	International Each activity will be awarded 4 marks.		
(b)	National Each activity will be awarded 3 marks.		
(c)	State Each activity will be awarded 2 marks.		
(d)	District / Village / Institution Each activity will be awarded 1 mark (Example:PIBG,JKKK,RELA) 1. Com. Member, PIBG SM Saujana Indah, Sessi 06/07 2. Com. Member, PIBG SM Saujana Indah, Sessi 07/08 3. Com. Member, PIBG SM Saujana Indah, Sessi 08/10 4. Com. Member, PIBG SRK Saujana Indah Sessi 07/08 5. Com. Member, Surau Tmn Pekaka, Sessi 08/10 6. Auditor, KAFA Tmn Pekaka, Sessi 07/08	1 1 1 1 1 1	
TOTAL		6	

GRAND TOTAL

CATEGORY				
1.0	RESEARCH AND PUBLICATION (M ₁)		Total Marks	
			Candidate	Appraisal Committee
1.1	Research Publication		87	
1.2	Publication Related to Teaching		-	
1.3	Research Grants		14	
1.4	Other Publications		-	

Total M_1		101	
2.0	TEACHING AND SUPERVISION (M_2)	13.78	
3.0	ACADEMIC RECOGNITION AND LEADERSHIP (M_3)	18	
4.0	CONSULTANCY (M_4)	3	
$M_a = 0.2M_1 + 0.5M_2 + 0.05M_3 + 0.05M_4$		28.14	
5.0	SERVICE TO THE UNIVERSITY (M_5)	10	
6.0	SERVICE TO THE COMMUNITY (M_6)	6	
$M_b = 0.1M_5 + 0.1M_6$		1.6	

I declare that all the information given in this form is true. The University has the right to withdraw or reject the application if any information in this form is found to be false.

Signature : _____

Name : **Dr. Zulkifli Ahmad**

Department : **Material and Mineral Resources**

Date : **08/04/08**