Curriculum Vitae

1. Personal Record:

Name

Dr. Hamidi Abdul Aziz

Sex

Date of Birth

Citizenship

26 November 1965

Malaysian

Marital Status Number of Children Married

Present Position

Field of Specialization

Associate Prof. in the Environmental Engineering Division Environmental Impact Assessment (EIA), Environmental

Management Plan (EMP), Environmental Engineering (water & wastewater treatment, solid waste management, air & noise

pollution, industrial waste treatment)

2. **Education Record**

(College/Universities attended and Qualifications/Degrees obtained with dates):-

Qualification <u>Date</u> College/University 1988 B.Eng. (Hons.) (Civil) - Second University of Strathclyde, UK Class (Upper Division) M.Sc. (Public Health & 1989 University of Strathclyde, UK. Environmental Control Eng.) Ph.D. (Environmental Engineering) 1992 University of Strathclyde, UK

Working Experience (Details of all previous positions and current position held with 3. dates):

1) Lecturer in Environmental Engineering at the School of Civil	1992 to date
Engineering, USM in the following subjects:	<u> </u>
a) Undergraduate Full Time	
Introduction to environmental science (EAH112) - 3 (2.5) credits and 70	1992 to date
students	
Public Health Engineering I (EAH311) - 3 (1.5) credits and 70 students	1992 to 1996
Public Health Engineering II (EAH411) - 3 (1.5) credits and 20 students	1992 to 1997
Advanced Public Health Engineering (EAH414) - 4 (2) credits and 20 students	1993 to 1998
Environmental Studies (EAH412) - 4 (1) credits and 20 students	1993 to 1999
Pollution and Environmental Conservation (EAH413) – 4 (2) credits and 20 students	1993 to 1999
Environmental Engineering II (EAP311) - 3 (1.5) credits and 150 students	1994 to 1999
Advanced Environmental Engineering (EAP312) – 4 (2.5) credits and 20 students	1999 to date
Building Services Engineering (EAA471) - 3 (1) credits and 60 students	1999 to date
Final Year Project (EAA491) - 9 (9) credits and 29 students as First Supervisor and 20 students as Second Supervisor	1994 to 1998
Practical Training - 3 weeks @ 3 hours/week and 20 students	1993 to date
b) Unitergraduate Distance Learning	
Introduction to environmental science (JAH112) - 3 (2.5) credits and 15 students	1994 to 1997
Public Health Engineering I (JAH311) - 3 (1.5) credits and 60 students	1998 to date
Advanced Public Health Engineering (JAH411) – 4 (2) credits and 10 students	1994 to date
Environmental Studies (JAH412) - 4 (1) credits and 10 students	1994 to date
Pollution and Environmental Conservation (JAH413) – 4 (2) credits and 10	1994 to date
students Continue and Francisco II (IAPALL) 3 (1.5) credits and 70 students	1999 to date
Environmental Engineering II (JAP411) - 3 (1.5) credits and 70 students	1995 to 1998
Building Services (JAA471) - 3 (1) credits and 50 students Final Year Project (JAA491) - 9 (9) credits and 9 students as First Supervisor and 5 students as Second Supervisor	1996 to date

Record of Public Service with dates:- Activity	<u>Date</u> 1993-1994
1. Committee Member (USM Representative) for the development of National Environmental Glossary, Dewan Bahasa & Pustaka	
Malaysia, Ministry of Education 2. Committee Member for the accreditation of certificate for sewage treatment plant operators, Sewage Services Department, Ministry	1995 to date
of Housing & Local Government 3 Registered Member, Environmental Professional Register of	Registered on 21/11/96
Metalesia (EDDM) Membership No. 014	1997 to date
4. Graduate Member, Institution of Engineers Malaysia (IEM) 5. Member, Environmental Research Association of Malaysia	1994 to date
(ENSEARCH)	1989 to date
6. Member, International Association of Water Quality (IAWQ) 7. Invited speaker to FIVE (5) Technical talk live on air at Radio 3	
 Ipoh Pollution and solid waste problem 	11/3/94 (8.00-9.00 am) 17/4/94 (800-9.00 am)
rrr	23/8/94 (5.10-6.00 pni)
Water political What is Science & Technology (Science & Technology Quiz)	5/7/95 (5.10-6.00 pm)
0	5/9/96 (5.10-6.00 pm)
Water and Pollution problem (Science & Technology Quiz)	26/7/98 (9.30-10.00
Environmental Management System (EMS/ISO14000)	pm)
	1995
8. Technical advice to Seberang Perai Municipal to use limestone	
ma o	26/5/95
9 Prepared 15 quiz questions for Science and Technology award	
	24/8/97, 8.30-9.30
-f the 4 coneic in talk 300W 1 togrammed	pm
'GLOBAL TV2', Radio & Television Vidaysia environmental aspects within the topic on Land Reclamation and	•
- · · · · · · · · · · · · · · · · · · ·	12/8/97
11. Invited speaker during the Workshop on Environment and Natural Resources Database organised by the Institute of Strategic and International Studies (ISIS) Malaysia and United	·
Nations Development Programme (UNDP). 12. Selected scientists to visit Kyoto University Japan under	28/9-11/10/97
JSPS/VCC Exchange Programme 13. Organising Committee Member, 'Enviro Malaysia '99 Conference', organised by Environmental Research Association	13-14 July 1999.
of Malaysia, ENSEARCH 14. Organising Committee Member, 'Pollution in the Metropolitan Environment Conference, World Conference, POLMET 2000', organised by Environmental Research Association of Malaysia,	19-23 March, 2000
ENSEARCH 15. Committee Member (USM Representative) for the development of MABBIM Civil Engineering Glossary, Dewan Bahasa &	1998 to date
Pustaka Malaysia, Ministry of Education	

Last updated 20 April 2000

12.

5. List of Research Projects Completed and in Progress with dates:-

(i) Completed:

Computer database for solid waste (i) Title (a) disposal in Malaysian towns Dr. Hamidi Abdul Aziz (Head), Dr. (ii) Main Researcher: Dini Ramya Hasan Basri (USM). Prof. M.B. Pescod, et.al. (UNUT) October 1992 Started: (iii) March 1997 Completed: (iv) ODA Sponsor: (v) Collection and analyses of solid Title (i) (b) waste disposal for 9 major towns in Malaysia: Towards a better management Dr. Hamidi Abdul Aziz (Head), (ii) Main Researcher: Dr. Dini Ramya Hasan Basri 1/11/93 Started: (iii) 31/5/96 Completed: (iv) Grant USM Short Term (v) Sponsor: (RM12,445) Study on leachate and landfill gas Title (i) (c) production at Ampang landfill site in Penang Dr. Dini Ramya Hasan Basri Main Researcher: (ii) (Head), Dr. Hamidi Abdul Aziz January 1995 Started: (iii) Desember 1996 Completed: (iv) Term Grant Short USM Sponsor: (v) (RM17,820) Removal of heavy metals (Hg, Pb, Title (d) (i) Zn. Cu, Ni, Cd dan Cr (III) from industrial wastewater using low cost filtration method in the laboratory Dr. Hamidi Abdul Aziz (Head), Main Researcher: (ii) Dr. Dini Ramya Hasan Basri, Dr. Faridah A.H. Asaari 1/10/96 (iii) Started: 31/3/98 (iv) Completed: Term Grant IRPA Short Sponsor: (v) (RM18,180) Study on the use of natural starch as Title coagulant aid in water wastewater treatment Dr. Hamidi Abdul Aziz (Head), Main Researcher: (ii) Dr. Ir. Mohd. Nordin Adlan, Dr. Abdul Manan Dos Mohamad 1/12/1998 (iii) Started: 30/11/2000 Completed: (iv) IRPA Short Term Grant Sponsor: (v) (RM14,671)

	1995-1996
International Students Exchange (Member)	1995-1997
Laboratory Developments (Member)	1995-1997
r :hear/Pecource Room (Member)	1995-1996
Curriculum development SPU and SPTT/SPLT	1997-date
	1994-1997
School of Chemical Engineering Board	1993-1994
1. School representative to M.Sc in Environmental Management	1990-1774
TICLA Deposit	1996
programme, USM Penang 2. School representative to M.Sc in Environmental Engineering, USM	1990
7 - 1 D	1006
3. Representing School of Civil Engineering to inter-departmental	1996
sport tournament (tep in oddinances and sport	1996
- ^ ' - C	
League in football match League in football match Champion in the badminton (single), squash (single) and runner- School a Civil Engineering's	1998
5. Champion in the badminton (single), squash (single), squash (single) up in the badminton (doubles) in the School o Civil Engineering's	
tournament	
6. Laboratory Developments:	1997 to date
	1995 to date
Equipped with apparatus to test all water quality parameter instead	•
· · · · · · · · · · · · · · · · · · ·	1995
the development of DITABOU DIAIL for adding and	
waste to comply with Department of Environment Standard.	1996
Development of Green Column	1996
Serve matic arrangements of laboratory equipment	1996
	1992-1996
to an andergraduate course on conclete parameters	1992-1990
The structure districts of Hall Light, DO, Source, 13, 14, 44	•
Course Sulphate Chloride etc., and an advance parameters such	
A Latin A becoming Specific Mile ACD.	1000 to data
	1992 to date
 Conducted a few industrial wastewater todays Jointly in charge for the maintenance of the environmental engineering 	1992 to date
laboratory equipment Evaluating tender document and supervising the commissioning process Understory equipment	1990-1994
• Evaluating tender document and supervising are transfer purchasing of the environmental engineering laboratory equipment	
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under RM6. Writing specifications, evaluating tender documents and supervising the	1995-1999
Writing specifications, evaluating tender documents and separation commissioning process for purchasing of the environmental engineering commissioning process for purchasing of the environmental engineering.	
commissioning process for purchasing of the children	
laboratory equipment under RM7.	1997-1998
Writing specifications and evaluating tender documents for purchasing of Writing specifications and evaluating tender documents for USM new	
Writing specifications and evaluating tenter devaluating tenter devaluation devaluation devaluation devaluation devaluation devaluation devaluation devaluating tenter devaluation dev	
	1997-1998
the layout and internal design of the cityhorational	
	1995-1998
	
recess for purchasing of the environmental significant	
. ' For Decorporation INTAK INTIL COMM.	1997-1998
TA	170 ("1770
for surchasting of the chivillimity vigorian-o	
in an factor of the normalization of the normalizat	1002 1006
	1993-1996
17. Prepare the exam questions for economics under Environmental 18. Developed the Reference Manual for subjects under Environmental	1996
18. Developed the Reference ividitial for students	
Engineering Programme for students Engineering Programme for students Engineering Programme for students	1994
19. Representing USM in the Road Show to promote USM at various	
Schools in Johor	
20. Outside Grants applied (with regret):	1994
	• •
Malaysia Toray Scientific Foundation (M1SF) in industrial waster	
 Outside Grants applied (with region). Malaysia Toray Scientific Foundation (MTSF) in industrial waste treatment (RM60,000). Malaysia Toray Scientific Foundation (MTSF) in industrial waste. 	1995

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Hamidi A. Aziz, Dini R.H. Basri, Faridah A.H. Ashaari and Mohamad F. Abdullah (1997), 'Survey on the dustbin used in selected area in Alor Setar and Ipoh municipals', Journal

Environmental Research Association of Malaysia (ENSEARCH), 10 (3/4): 203-207.

Hamidi A. Aziz and Madura Mohd. (1998), 'Potential use of low cost filtration technique for removing selected heavy metals from wastewater at pH less than 5', Indian Journal of Engineering and Material Sciences, Vol 5, Aug., pp 194-201.

Hamidi Abdul Aziz (1998), 'Wastewater disposal' (In Malay), Encyclopaedia Science and Technology, Dewan Bahasa dan Pustaka, (In publication).

Hamidi Abdul Aziz (1998), 'Clinical Waste Disposal) (In Malay), Encyclopaedia Science and Technology, Dewan Bahasa dan Pustaka, (In publication).

Hamidi Abdul Aziz (1998), 'Imhoff Tank' (In Malay), Encyclopaedia Science and Technology, Dewan Bahasa dan Pustaka, (In publication).

Hamidi Abdul Aziz (1998), 'Environmental Auditing' (In Malay), Encyclopaedia Science and Technology, Dewan Bahasa dan Pustaka (In publication).

Hamidi Abdul Aziz (1998), 'Wastewater treatment' (In Malay), Encyclopaedia Science and

Technology, Dewan Bahasa dan Pustaka, (In publication). Hamidi Abdul Aziz (1998), 'Environmental Quality Index' (In Malay), Encyclopaedia Science and

Technology, Dewan Bahasa dan Pustaka, (In publication). Hamidi Abdul Aziz and Mohd Koffly (1998), The use of sago starch as coagulant aid in water and wastewater treatment', Bulletin Institution of Engineers Perak, pp27-31.

Aziz, H.A. (1998), 'Handling and disposal of industrial sludges', The Malaysian Technologist, Vol.

Hamidi Abdul Aziz and Norazlin Othman (1999), 'A Review of heavy metal pollution and potential removal techniques', Annual Bulletin, Institution of Engineers Perak, pp34-39.

Norazli Othman and Hamidi Abdul Aziz (1999), The Influence Of Flowrates and Particle Size in the Removal of Copper from Water Using Limestone Filtration Technique-Laboratory Scale', Proceedings International Conference of Recent Advances in Materials and Mineral Resources, RAMM 2, Penang Park Royal Penang, 3-5 May.

Norazli Othman and Hamidi Abdul Aziz (1999), The Influence Of Retention Time And Surface Loading Rate In The Removal Of Zinc And Chromium From Water Using Limestone Filtration Technique-Laboratory Scale', Background Paper, Proceedings Environment Malaysia Conference, Mines Conference Centre, Kuala Lumpur, 13-14 July.

Hamidi Abdul Aziz, Sujatha Raghavan, Mohd. Koffly Mohd. Isa and Mohd. Harmizi Abdullah (1999), Influence of pH in the removal of turbidity from drinking water using natural resource coagulant and coagulant aid', Background Paper, Proceedings Environment Malaysia Conference, Mines Conference Centre, Kuala Lumpur, 13-14 July.

Norazli Othman, Hamidi A. Aziz, Dini R.H.Basri, Faridah A.H. Assari (1999), 'Removal Of Lead From Water Using Limestone Filtration Technique-Laboratory Scale, Malaysian Technologist,

H. A. Aziz, N. Othman, M.S. Yusuff, D.R.H. Basri and F.A.H. Asaari (2000), 'Initial Study On The Mechanism Of Copper Removal From Water Using Limestone Filtration Technique', Proceedings Third International Conference on Environmental Chemistry and Geochemistry in the Tropics-GEOTROP '99, Nov 24-27, Hongkong Baptist University.

Norazli Othman, H.A. Aziz, D.R.H. Basri and F.A.H. Ashaari (1999), 'The Influence Of Retention Time And Surface Loading Rate In The Removal Of Copper, Zinc And Chromium From Water Using Limestone Filtration Technique-Laboratory Scale', Proceedings, World Filtration Congress 8, Brighton, UK, 4-7 April 2000, Vol. 2, pp359-362, Elsevier Science.

Hamidi Abdul Aziz, Sujatha Raghavan, Mohd. Koffly Mohd. Isa and Mohd. Harmizi Abdullah (2000), 'Cationic Natural Coagulant Aid for Heavy Metals and Turbidity Removal in Water at pH 7.5 and Alum Concentration 25 mg/L-Laboratory Study', paper accepted for publication in Indian Journal of Engineering and Materials Science.

Hamidi A. Aziz, Sujatha Raghavan, Mohd. Kofily Mohd. Isa and Mohd. Harmizi Abdullah (2000), 'Removal of Sulphate, Chloride, Nitrate-Nitrogen and Turbidity from Water Using Tapioca Starch as Primary Coagulant and Coagulant Aid-Laboratory Study', JURUTERA, in

Dini, R.H.B., Hamidi A.A. and Savinder, K., (2000), 'The effectiveness of physico-chemical treatment for leachate from Ampang Jajar landfill site, Seberang Perai, Malaysia APLAS FUKUOKA, October 2000.

Harrudi Abdul Aziz, Sujatha Ragavhan Mohd. Koffly and Abdullah, M.H. (1998), 'The use of natural polymer as coagulant aid in water and wastewater treatment', paper presented at the Malaysian Science & Technology Congress' 98, Biodiversity & Environmental Sciences, 24-25

November, Kota Kinabalu. Ibrahim, W.H.W. and Aziz, H.A. (1998), 'Air quality degradation due to traffic congestion at isolated traffic light junction', paper presented at the Malaysian Science & Technology Congress'

98, Biodiversity & Environmental Sciences, 24-25 November, Kota Kinabalu. Hamidi Abdul Aziz (1998), 'Research on metals removal from industrial wastewater-Potential treatment using natural polymer and limestone', paper presented at the Seminar on water resources and treatment systems, Institution of Engineers Malaysia (Perak Branch), IPG Ipoh, 7 November.

Hamidi Abdul Aziz, Dini Ramya Hasan Basri, Faridah A.H. Asaari, Norazli Othman, Mohd. Suffian Yusuff, Mazita Johari And Mariaty Perwira (1999), Potential Post-Treatment Of Heavy Metals From Industrial Wastewater', paper presented at the Malaysian Science & Technology Congress' 99, Biodiversity & Environmental Sciences, 8-11 November, Kuching.

Hamidi A. Aziz, Amirudin Mohd. Shah dan Mohd. Nordin Adlan (2000), 'Kajian penggunaan kanji ubi kayu sebagai bahan pembantu penggumpalan dalam proses olahan air minuman-sumber air sungai muda', AWAM 99, Lumut, 24-26 Januari.

Hamidi A. Aziz dan Mohammed Ismail (2000), 'Penyingkiran logam ferum dan mangan dari sumber air bumi: kajian kes di loji air terpilih, kelantan', AWAM 99, Lumut, 24-26 Januari.

Patents and Registered Designs (Completed and in progress) Filtration model for heavy metals removal for small and medium industries (SMI) using 9. limestone media (in progress)

10.

Records of consultancy services with dates:-	Date	Cost (RM)
Title 1) Treatability study and consultancy report for the design of the proposed treatment works for the new slaughterhouse wastewaters in Central Market, Ipoh. Report completed in August 1993 for Majlis Bandaraya	Jan-Aug 1993	7,850
Ipoh. 2) Study to predict the lifespan of water extracted and redischarged to the ex-mining pond for marble processing industry in Simpang Pulai Ipoh. Consultancy work with Perak SEDC. Report submitted in November 1994.	Aug-Nov 1994	6,000

Hamidi A. Aziz, Dini R.H. Basri, Faridah A.H. Ashaari and Mohamad F. Abdullah (1997), 'Survey on the dustbin used in selected area in Alor Setar and Ipoh municipals', Journal

Environmental Research Association of Malaysia (ENSEARCH), 10 (3/4): 203-207.

Hamidi A. Aziz and Madura Mohd. (1998), 'Potential use of low cost filtration technique for removing selected heavy metals from wastewater at pH less than 5', Indian Journal of Engineering and Material Sciences, Vol 5, Aug., pp 194-201.

Hamidi Abdul Aziz (1998), 'Wastewater disposal' (In Malay), Encyclopaedia Science and

Technology, Dewan Bahasa dan Pustaka, (In publication).

Hamidi Abdul Aziz (1998), 'Clinical Waste Disposal) (In Malay), Encyclopaedia Science and Technology, Dewan Bahasa dan Pustaka, (In publication).

Hamidi Abdul Aziz (1998), 'Imhoff Tank' (In Malay), Encyclopaedia Science and Technology,

Dewan Bahasa dan Pustaka, (In publication). Hamidi Abdul Aziz (1998), Environmental Auditing (In Malay), Encyclopaedia Science and Technology, Dewan Bahasa dan Pustaka (In publication).

Hamidi Abdul Aziz (1998), 'Wastewater treatment' (In Malay), Encyclopaedia Science and Technology, Dewan Bahasa dan Pustaka, (In publication).

Hamidi Abdul Aziz (1998), Environmental Quality Index (In Malay), Encyclopaedia Science and

Technology, Dewan Bahasa dan Pustaka, (In publication). Hamidi Abdul Aziz and Mohd Koffly (1998), The use of sago starch as coagulant aid in water and wastewater treatment', Bulletin Institution of Engineers Perak, pp27-31.

Aziz, H.A. (1998), 'Handling and disposal of industrial sludges', The Malaysian Technologist, Vol.

Hamidi Abdul Aziz and Norazlin Othman (1999), 'A Review of heavy metal pollution and potential removal techniques', Annual Bulletin, Institution of Engineers Perak, pp34-39.

Norazli Othman and Hamidi Abdul Aziz (1999), The Influence Of Flowrates and Particle Size in the Removal of Copper from Water Using Limestone Filtration Technique-Laboratory Scale', Proceedings International Conference of Recent Advances in Materials and Mineral Resources, RAMM' 2, Penang Park Royal Penang, 3-5 May.

Norazli Othman and Hamidi Abdul Aziz (1999), 'The Influence Of Retention Time And Surface Loading Rate In The Removal Of Zinc And Chromium From Water Using Limestone Filtration Technique-Laboratory Scale', Background Paper, Proceedings Environment Malaysia Conference,

Mines Conference Centre, Kuala Lumpur, 13-14 July. Hamidi Abdul Aziz, Sujatha Raghavan, Mohd. Koffly Mohd. Isa and Mohd. Harmizi Abdullah (1999), 'Influence of pH in the removal of turbidity from drinking water using natural resource coagulant and coagulant aid', Background Paper, Proceedings Environment Malaysia Conference,

Mines Conference Centre, Kuala Lumpur, 13-14 July. Norazli Othman, Hamidi A. Aziz, Dini R.H.Basri, Faridah A.H. Assari (1999), 'Removal Of Lead From Water Using Limestone Filtration Technique-Laboratory Scale', Malaysian Technologist,

H. A. Aziz, N. Othman, M.S.Yusuff, D.R.H. Basri and F.A.H. Asaari (2000), 'Initial Study On The Mechanism Of Copper Removal From Water Using Limestone Filtration Technique', Proceedings Third International Conference on Environmental Chemistry and Geochemistry in the Tropics-GEOTROP '99, Nov 24-27, Hongkong Baptist University.

Norazli Othman, H.A. Aziz, D.R.H. Basri and F.A.H. Ashaari (1999), 'The Influence Of Retention Time And Surface Loading Rate In The Removal Of Copper, Zinc And Chromium From Water Using Limestone Filtration Technique-Laboratory Scale', Proceedings, World Filtration Congress

8, Brighton, UK, 4-7 April 2000, Vol. 2, pp359-362, Elsevier Science. Hamidi Abdul Aziz, Sujatha Raghavan, Mohd. Koffly Mohd. Isa and Mohd. Harmizi Abdullah (2000), 'Cationic Natural Coagulant Aid for Heavy Metals and Turbidity Removal in Water at pH 7.5 and Alum Concentration 25 mg/L-Laboratory Study', paper accepted for publication in Indian

Journal of Engineering and Materials Science. Hamidi A. Aziz, Sujatha Raghavan, Mohd. Koflly Mohd. Isa and Mohd. Harmizi Abdullah (2000), Removal of Sulphate, Chloride, Nitrate-Nitrogen and Turbidity from Water Using Tapioca Starch as Primary Coagulant and Coagulant Aid-Laboratory Study', JURUTERA, in

Dini, R.H.B., Hamidi A.A. and Savinder, K., (2000), 'The effectiveness of physico-chemical treatment for leachate from Ampang Jajar landfill site, Seberang Perai, Malaysia APLAS FUKUOKA, October 2000.

Hamidi Abdul Aziz (1997), 'Spesifikasi Persekitaran Kejuruteraan Awam', paper presented at the Short Course on 'Memahami Spesifikasi Kejuruteraan Awam', Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia (Perak Branch), 3-5 February.

Hamidi Abdul Aziz (1997), 'Sludge Handling and Disposal, paper presented at the Short Course on 'Industrial Wastewater Management', School of Chemical Engineering, USM

Hamidi Abdul Aziz (1997), Biological Treatment of Industrial Wastewater, paper presented at Perak, 16-17 Disember. the Short Course on 'Industrial Wastewater Management', School of Chemical Engineering,

Hamidi Abdul Aziz, Dini Ramya Hasan Basri, Faridah A.H. Asaari, Norazli Othman, Mohd. USM Perak, 16-17 Disember. Suffian Yusuff, Mazita Johari And Mariaty Perwira (1999), Potential Post-Treatment Of Heavy Metals From Industrial Wastewater ', paper presented at the Malaysian Science & Technology Congress' 99, Biodiversity & Environmental Sciences, 8-11 November, Kuching.

Hamidi Abdul Aziz (1998), Research on metals removal from industrial wastewater-Potential treatment using natural polymer and limestone', paper presented at the Seminar on water resources and treatment systems. Institution of Engineers Malaysia (Perak Branch), IPG Ipoh, 7 November.

v)

'Formation of Leachate and Gaseous from Landfill Sites', Perantara, Vol. 14, No. 6,

'Water Supply Engineering', Module 1: School of Distance Learning, University of Science December, 1996.

'Photochemical Oxidation Substance', Encyclopedia Science and Technology, Dewan Bahasa Malaysia, 205 pages, 1998.

'Thermal Pollution', Encyclopedia Science and Technology, Dewan Bahasa dan Pustaka,

'Solid Waste', Encyclopedia Science and Technology, Dewan Bahasa dan Pustaka, Malaysia,

'A Linear Cost Model Application for Solid Waste Collection Routes Selection', paper to be published in Journal, Institution of Engineers, Malaysia, 16 pages, 1998.

Uncertainty analysis for Layang reservoir phosphorous loading estimation', paper to be published in the Proceedings International Conference on Humid Tropics, Casuarina Parkroyal

'Role of naturally occurring iron in arsenic removal from groundwater', paper to be published Hotel, Ipoh, 24-26 November, 1998. in the Proceedings International Conference on Humid Tropics, Casuarina Parkroyal Hotel, Ipoh,

'Appropriate strategies for leachate management in developing country', paper to be published in the Proceedings International Conference on Humid Tropics, Casuarina Parkroyal

The management of municipal wastewater sludge in Malaysia', paper to be published in IEM

'Bukit Kemuning Electroplating Park Commonsal Environmental Project', paper to be published Bulletin, 12 pages, 1999.

'An efficient and environmental friendly information technology (IT) solution for hospitality in IEM Bulletin, 10 pages, 1999 Industry'. paper to be published in Proceedings Environment Malaysia Conference, Mines

Conference Centre, Kuala Lumpur, 13-14 July Enhancement of solid-liquid separation using Dissolved Air Floatation process', paper to be published in Proceedings Environment Malaysia Conference, Mines Conference Centre, Kuala

'An efficient and environmental friendly information technology (IT) solution for hospitality Industry'. paper to be published in Proceedings Environment Malaysia Conference, Mines

Conference Centre, Kuala Lumpur, 13-14 July, 1999 'Enhancement of solid-liquid separation using Dissolved Air Floatation process', paper to be published in Proceedings Environment Malaysia Conference, Mines Conference Centre, Kuala

'Quantification analysis of deamoniation latex effluent sludge' Journal of Industrial Technology, Lumpur, 13-14 July, 1999.

'Use of foundry material in water pollution control', paper to be published in Water Research,

'Chemical coagulation on settleable solid-free palm oil mill effluent (POME) for organic load Pergamon, 18 pages, 1999 reduction & Solid Recovery', Journal of Industrial Technology, SIRIM, 2000.

(d):	(i)	Title
	• .	(ii)	Main Researcher:
		(iii)	Started:
		(iv) (v)	Completed: Sponsor:
	(e)	(i)	Title

(ii) Main Researcher:

(iii) Started:(iv) Completed:(v) Sponsor:

(f) (i) Title

(ii) Main Researcher:

(iii) Started:(iv) Completed:(v) Sponsor:

Comparative Study of Health Risks by the Trace Elements, International Cooperation Study between Japan, Malaysia (USM) and India Prof. Shinsuke Morisawa (Kyoto University) (Head) Dr. Hamidi Abdul Aziz (Malaysia) Prof. Sivakumar (India) Has been approved by Japanese Government 3 years Japanese Government Grant (Exact cost is still uncertain)

The use of natural polymer (natural starch) as an alternative coagulant and coagulant aids in removing turbidity, nitrat, sulphate, chloride, and heavy metals from water and wastewater

Dr. Hamidi Abdul Aziz (Head), Dr. Ir. Mohd. Nordin Adlan, Dr. Abdul Manan Dos Mohamad, Dr. Fadil Othman, Dr. Ir. Mohd. Omar Abdul Kadir, Dr. Azizan Aziz, Cik Mashitah Mat Don

February 2000 January 2002

IRPA Long Term Grant (RM244,998)

Development of an environmental data acquisition system for use in an Intelligent Transportation System (ITS)
Dr. Ahmad Farhan Sadullah (Head) Dr. Hamidi Abdul Aziz,

(Head), Dr. Hamidi Abdul Aziz, Dr. Azlina Kamarudin, Dr. Yusuff Mashor

November 1999 October 2001

IRPA Long Term Grant (RM120,000)

(iii) Undergraduate Research:

(a) First Supervisor:

	December title	Student
Academic	Research title	
year	Treatability study for the propose new activated sludge plant	Yap Nam Fee
	to replace present exidation pond for student hoster as	
	l — = .1	Ahmad Kamal Arif
1993/94	Perak Branch. The degree of compliance of The Environmental Quality Act 1974. Case Study for Industrial and Municipal effluents in	Mohamad
	\ a	Mohd Saidi Awang
1993/94	Ipoh. Comparative study on solid waste management cost analysis between conventional method and WAGS PROGRAMME	
	for Ipoh Municipal.	

Hamidi Abdul Aziz (1994), 'Introduction to Environmental Science: Environmental Science and You - Introduction, damaging activities and conservation aspects', Module 1 (In Malay), First

Hamidi Abdul Aziz (1995), 'Introduction to Environmental Science: Water and Wastewater in Edition, School of Distance Learning Publisher, USM. Environment - Quality and Diseases Aspects', Module 2 (In Malay), First Edition, School of

Hamidi Abdul Aziz (1997), 'Wastewater Treatment', Module 2 (In Malay), First Edition, School Distance Learning Publisher, USM.

Harnidi Abdul Aziz (1997), 'Non-biodegradable Industrial Solid Waste', in Effective Solid Waste Management, edited by Agamuthu, P. and Nather Khan, Chapter 12, pp 12-1-12-26, Ecotone Management Sdn. Bhd., Kuala Lumpur, ISBN 983-808-036-5.

Hamidi Abdul Aziz (1997), 'Laboratory Manual', Module 3 (In Malay), First Edition, School of

Hamidi Abdul Aziz (1997), 'Non-biodegradable Industrial Solid Waste', in Effective Solid Waste Distance Learning Publisher, USM. Management, edited by Agamuthu, P. and Nather Khan, Chapter 12, pp 12-1-12-26, Ecotone Management Sdn. Bhd., Kuala Lumpur, ISBN 983-808-036-5.

Dini R.H. Basti, Hamidi A Aziz, Faridah A.H. Ashaari and Sharon T.A. Ping (1998), 'The effectiveness of treating leachate from sanitary landfill using filtration method', in Environmental Management: Engineering the water-environment and Geo-environment, Vol. 1, pp 413-421, Edited by M. Sivakumar and R.N. Chowdhury, Pergamon, ISBN 0080428479.

Hamidi Abdul Aziz (1998), 'Pollution and Environmental Control Engineering', (In Malay), First

Hamidi Abdul Aziz (1999), 'Kejuruteraan Air Sisa: Kualiti Air dan Air Sisa', Utusan

Hamidi Abdul Aziz (1999), Kejuruteraan Air Sisa: Rekabentuk Loji Olahan', Utusan

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999/2000		Che Lokman bin
1999/2000	Solid waste management in Bachok Kelantan	Abdullah Che Mahmud Che
1999/2000	Solid waste management- Case study	Mat
1999/2000	Optimization of wastewater treatment system for palm oil	Thagarajan a/l Vellan Thurai
1999/2000	mill effluent Continuation research on the use of tapioca starch as coagulant and coagulant aid in removing turbidity from	Mohd. Munir b. Mohd. Noor
1999/2000	water the use of selected plant leaves as coagulant	Masri Muda
1999/2000	and coagulant aid in water and wastewater used to degree of	Mazita Johari
1999/2000	wastewater the use of carbon and limestone in	
	removing metallic wastewater	
1999/200		
1999/200		
1999/200		Zaid

(b) Second Supervisor:

Also appointed as a second supervisor for about 20 undergraduate level final year project.

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